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### **Drinking Water Surveillance Program**

### HAMILTON WATER SUPPLY SYSTEM

**Annual Report 1989** 



April 12 100

### HAMILTON WATER SUPPLY SYSTEM

### DRINKING WATER SURVEILLANCE PROGRAM

### **ANNUAL REPORT 1989**

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### EXECUTIVE SUMMARY

### DRINKING WATER SURVEILLANCE PROGRAM

### HAMILTON WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The Hamilton Water Treatment Plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of 909 x 1000  $\rm m^3/day$  and serves a population of approximately 412,000.

Water samples from the raw, treated and two distribution sites were taken on a monthly basis and analyzed for the presence of approximately 180 parameters, during 1989. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organics (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons, Specific Pesticides and Volatiles). Samples were analyzed for Specific Pesticides and Chlorophenols in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters (Laboratory Chemistry, Field Chemistry and Metals) were below applicable health related Ontario Drinking Water Objectives (ODWOs).

Samples were analyzed monthly for the presence of approximately 110 Organics. Levels did not exceed health related guidelines.

During 1989, the DWSP sampling results indicated that the Hamilton Water Supply System produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM

HAMILTON WSS

SUMMARY TABLE BY SCAN

SCAN	TESTS	RAW POSITIVE	KPOS1TIVE	TESTS	RAW TREATED SITE 1 SITE 2 TESTS POSITIVE XPOSITIVE XPOSITIVE TESTS POSITIVE XPOSITIVE XPOSITIVE XPOSITIVE	SITIVE	S TESTS	SITE 1 S POSITIVE X	OSITIVE	STESTS	SITE 2 S POSITIVE XPOSITIVE	SITIVE
BACTERIOLOGICAL	×	×	89	æ	-	m	æ	4	12	*	2	10
CHEMISTRY (FLD)	37	*	2	58	52	&	103	8	87	3	۴	8
CHEMISTRY (LAB)	577	506	ž	223	168	ĸ	407	355	87	443	393	28
METALS	288	162	8	564	132	20	517	304	28	56	321	95
CHLOROAROMATICS	<b>3</b>	0	0	154	0	0	154	0	0	3	0	•
CHLOROPHENOLS	12	0	0	12	0	0	•	•	•	•		•
РАН	192	0	•	£	0	0	•	٠	•	•		•
PESTICIDES & PCB	807	0	•	374	0	•	309	0	0	343	0	0
PHEMOL I CS	12	7	28	Ξ	€0	2	•	•	•	•		•
SPECIFIC PESTICIDES	\$9	0	0	\$	0	0	Ξ	0	0	12	0	0
VOLATILES	348	-	0	8	17	7	319	77	13	319	7,	13
	1810	432		1658	705		1853	787		1968	835	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DEWOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE A '.' INDICATES THAT NO SAMPLE WAS TAKEN

TOTAL

### DRINKING WATER SURVEILLANCE PROGRAM

### HAMILTON WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

### INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP program was initiated at the Hamilton Water Treatment Plant in the spring of 1986. Annual reports were published for 1986 (ISBN 0-7729-2554-2), 1987 and 1988 (ISSN 0839-9034).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

### PLANT DESCRIPTION

The Hamilton Water Treatment Plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. The plant is divided into two independent treatment modules: ammoniation is infrequently used to produce a long-lasting chloramine residual in the distribution system and sulphur dioxide is used as a dechlorinator as necessary.

This plant has a design capacity of 909 x 1000  $m^3$ /day and flows on the day of sampling ranging from 110.3 x 1000  $m^3$ /day to 563.6 x 1000  $m^3$ /day. The plant serves a population of 412,000.

The plant location is shown in Figure 1. Plant Process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

### SAMPLING AND ANALYSIS

Plant operating personnel analyze for process control parameters (Table 1).

Water at the Hamilton Water Treatment Plant and two sites in the

### FIGURE 1

### DRINKING WATER SURVEILLANCE PROGRAM SITE LOCATION MAP HAMILTON WATER TREATMENT PLANT



FIGURE 2

### HAMILTON WTP

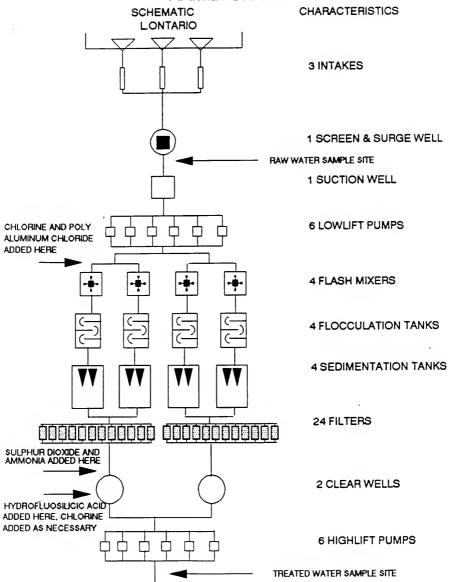


TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING HAMILTON WSS 1989

PARAMETER	LOCATION	FREQUENCY
Chlorine residual-free total	Lowlift discharge Settled water Filtered water Highlift discharge Highlift discharge	continuous continuous continuous every 2 hrs every 2 hrs
Н	Raw water intake Raw water wet well Treated water Highlift discharge	continuous every 2 hrs continuous every 2 hrs
Temperature	Raw water wet well Treated water	continuous every 2 hrs
Turbidity	Raw intake line Raw water wet well Top of filters Bottom of filters Highlift discharge Highlift discharge	every 2 hrs continuous continuous continuous every 2 hrs continuous

### TABLE 2

### DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT GENERAL INFORMATION

### HAMILTON WATER SUPPLY SYSTEM

LOCATION:

900 WOODWARD AVE

HAMILTON, ONTARIO

L8H 7N2

(416-526-4484)

**SOURCE:** 

RAW WATER SOURCE - LAKE ONTARIO

RATED CAPACITY:

909 (1000 M<sup>3</sup>/DAY)

OPERATION:

MUNICIPAL

PLANT SUPERINTENDENT:

W. FURRY

MINISTRY REGION:

WEST CENTRAL

DISTRICT OFFICER:

MR. J.W. VOGT

MUNICIPALITY SERVED	POPULATION
ANCASTER DUNDAS TOWN HAMILTON STONEY CREEK WATERDOWN	16,542 20,081 307,690 41,690 25,541

distribution system was sampled for the presence of approximately 180 parameters on a monthly basis. Samples were analyzed for Specific Pesticides and Chlorophenols in June and November only. Only the raw and treated water at the plant was analyzed for Polyaromatic Hydrocarbons and Phenolics . As of August 1989, the analysis of Triazine pesticides was dropped from the distribution sample. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

### RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP database as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported. Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be

confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

### **DISCUSSION**

### General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available, guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS), recently published (ISBN 0-7729-4461-X) by the MOE, catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANICS WITH DETECTED POSITIVE RESULTS.

Results for the treated and distributed water indicate that the health related quideline for chromium was exceeded in one sample.

### Inorganic and Physical Parameters

### Ammonia

The Total Ammonium levels are high. While the European Economic Community has an aesthetic guideline of .05 mg/L, the Maximum Admissible Concentration is .50 mg/L and is set as a result of the concern for potential sewage pollution and its detection.

### Fluoride

The Laboratory results indicate that fluoride levels were below the ODWO recommended range of 1.0 to 1.4 mg/L in ten treated and distribution system samples. Fluoride was not added to the treatment process during the December sampling period.

### Hardness

The ODWOs indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters, provides an acceptable

balance between corrosion and encrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and would possess a tendency to form scale deposits and result in excessive soap consumption.

### Aluminum

The plant operational guideline of 100  $\mu g/L$  as Al in water leaving the plant was exceeded in 16 treated water and distribution system samples.

### Chromium

The ODWO of 50  $\mu$ g/L was exceeded in the March treated water sample. Elevated levels were also reported for the raw water in February and March but were not detected in the corresponding samples taken from the distribution system. Plant staff were notified.

### Organic Parameters

### 1,1,1-Trichloroethane

1,1,1-Trichloroethane was detected in the February treated water sample at 0.36  $\mu$ g/L. The United States Environmental Protection Agency (EPA) has a Maximum Contaminant Level (MCL) of 200  $\mu$ g/L.

### Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated

surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences in the treated and distributed samples, ranging from 15.2 to 34.8  $\mu$ g/L, were well below the ODWO of 350  $\mu$ g/L.

### CONCLUSIONS

Results listed in this report for 1989 are consistent with the results reported for previous years. The treated water was of good quality and this was maintained in the distribution system.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS SAMPLE DAY CONDITIONS FOR 1989

TREATMENT CHEMICAL DOSAGES (MG/L)

SAMPLE DAY CONDITIONS

			PRE-CHLORINATION	COAGULATION		CHLORAMINATION		POST-CHLORINATION
DATE	DELAY * TIME(HRS)	FLOW (1000M3)	CHLORINE	ALUM LTOUTO	POLYALUMINUM CHLORIDE	AMMONIUM ANHYDROUS	AMMONIUM HYDROXIDE	CHLORINE
JAN 24	3.0	110.3	1.80	2.20	2.20 .56			50
FEB 28	3.1	168.5		3.40	59:		•	91
MAR 29	5.7	263.9		5.10	1,10		•	<u>.</u>
APR 25	0.9	207.6		5.00	•		•	. 3
MAY 24		•		5.00			•	
JUN 28	5.0	234.7	2.20	00.4	1.00		•	53
JUL 25	5.9	590.8		7.00		•	•	77
AUG 29	3.2	545.4		6.00	•	•	• •	
SEP 26	2.5	270.0		5.00	•	•	• ,	. 12
OCT 24	4.5	135.0		8.20	1.70		20	•
NOV 29	3.6	145.8		5.30	1.40	.34		. 0
DEC 20	3.1	563.6		5.00	1.20	.30		

\* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME

TABLE 4

# DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE		TEO SITIVE T	RACE	S TOTAL	SITE 1 POSITIVE	TRACE	TOTAL	TREATED SITE 1 SITE 2 TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	2	0									
	STANDRD PLATE CNT MF	•	•	•	Ξ	0	0	Ξ	m	0	12	-	0
	TOTAL COLIFORM MF	12	٥	0	Ξ	-	0	Ξ	0	0		0	
	T COLIFORM BCKGRD MF	5	Ξ	0	=	0	0	Ξ	-	0	12	-	0
*TOTAL SCAN BACTERIOLOGICAL	OLOGICAL	×	23	0	33	-	0	33	4	0	38	2	0
*TOTAL GROUP BACTERIOLOGICAL	TOLOGICAL	*	æ	0	33	-	0	33	4	0		2	0
CHEMISTRY (FLD)	HEMISTRY (FLD) FLD CHLORINE (COMB)	-	0	0	=	=	0	22	22		17		0
	FLO CHLORINE FREE	-	0	0	9	0	0	9	m		7		0
	FLD CHLORINE (TOTAL)	-	0	0	2	2	0	22	22	0	17	. 15	0
	FLO PH	10	10	0	6	6	0	21	21		22	22	
	FLO TEMPERATURE	12	12	0	=	Ξ	0	22	22	0			0
	FLO TURBIDITY	12	12	0	Ξ	Ξ	0	•	•	•	•	•	
*TOTAL SCAN CHEMISTRY (FLD)	RY (FLD)	37	ä	0	58	25	0	103	8	0	88	ĸ	0
CHEMISTRY (LAB)	ALKALINITY	=	=	0	10	10	0		22	0		54	
	CALCIUM	12	12	0	Ξ	=	0	22	22			57	
	CYANIDE	12	0	0	=	0	0	=	0	0		0	
	CHLORIDE	12	12	0	Ξ	=	0	22	22		75 1	57	
	COLOUR	Ξ	4	7	Ç	0	0	22	0	22		•	23
		;	;						1				

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

		2											
			RAU		_	TREATED		v	SITE 1			SITE 2	
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRAC
CHEMISTRY (LAB)	FLUORIDE	12	12	0	Ξ	=	0	22	22	٥	24	54	
	HARDNESS	12	12	0	Ξ	Ξ	0	22	32	0	57		_
	IONCAL	12	Ξ	0	Ξ	5	0	22	22	0	54		Ī
	LANGELIERS INDEX	Ξ	Ξ	0	2	<b>£</b>	0	22	22	0	77		
	MAGNESIUM	12	12	•	Ξ	=	0	22	22	0	77		
	SODIUM	12	12	•	Ξ	Ξ	0	22	22	0	57		_
	AMMONIUM TOTAL	12	^	~	Ξ	Ξ	0	22	22	0	72		
	HITRITE	12	7	<u>د</u>	=	•	٥	22	7	15	57		7
	TOTAL NITRATES	=	Ξ	0	2	5	0	22	22	0	5		0
	NITROGEN TOT KJELD	12	12	0	=	=	0	22	22	0	57	72	0
	Ŧ.	Ξ	Ξ	0	2	5	0	22	22	0	54		0
	PHOSPHORUS FIL REACT	12	7	m	=	•	5	•	•	•	•	•	
	PHOSPHORUS TOTAL	12	12	0	Ξ	-	٥	•	•	•	•	•	
	SULPHATE	Ξ	=	0	2	5	0	25	22	0	5		0
	TURBIDITY	=	=	0	2	٥	-	22	18	4	77	. 17	
*TOTAL SCAN CHEMISTRY (LAB)	(LAB)	544	506	1	223	<b>3</b> 8	*	407	355	17	443	393	37
METALS	SILVER	12	0	~	=	•	•	22	0	•	72	•	5
	ALUMINUM	12	12	0	Ξ	Ξ	0	25	22	0		54	0
	ARSENIC	12	2	7	Ξ	2	S	25	Ξ	2	54	12	9
	BARTUM	12	12	0	Ξ	Ξ	0	22	22	0		72	
	BORON	12	12	0	Ξ	Ξ	•	25	22	0	5		0
	BERYLLIUM	12	0	7	Ξ	•	2	2	0	8	70	•	•

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SCAN	DARAMETER				LECALED	2		7				2 115	
HETALS		TOTAL	TOTAL POSITIVE TRACE	TRACE	101	IT IVE 1		TOTAL P	TOTAL POSITIVE TRACE	IRACE	TOTAL POSITIVE TRACE	ITIVE	RACE
	CADMIUM	12	0	4	=	-	m	22	0	^	54	-	2
	COBALT	12	0	10	Ξ	0	٥	22	0	15	%	0	20
	CHROMIUM	12	60	m	=	80	m	22	4	4	5%	17	•
	COPPER	12	Ξ	-	=	9	8	22	21	-	%	54	0
	IRON	12	2	٥	=	0	9	22	80	14	77	0	15
	MERCURY	12	2	2	=	m	7	Ξ	9	2	12	M	7
	MANGANESE	12	12	0	=	7	m	22	22	0	77	21	2
	MOL YBDENUM	12	12	0	=	=	0	22	22	0	54	54	0
	NICKEL	12	m	٥	=	7	٥	22	4	16	54	4	18
	LEAD	12	Ξ	-	=	m	9	22	22	0	54	23	-
	ANTIMONY	12	Ξ	-	=	Ξ	0	22	12	-	54	23	-
	SELENIUM	12	0	2	Ξ	0	٥	22	-	17	57	M	1
	STRONTIUM	12	12	0	=	Ξ	0	22	22	0	7,7	54	0
	TITANIUM	12	Ξ	-	=	9	-	22	19	m	57	20	4
	THALLIUM	12	0	2	=	0	2	22	0	4	54	0	
	URANIUM	12	Ξ	-	=	0	-	22	20	2	54	22	2
	VANADIUM	12	M	٥	11	4	7	22	2	20	57	4	20
	ZINC	12	12	0	=	<b>&amp;</b>	m	22	21	-	57	57	0
*TOTAL SCAN METALS		288	162	74	752	132	82	517	304	134	295	321	15
*TOTAL GROUP INORGANIC & PHYSICAL	C & PHYSICAL	269	405	6	545	352	116	1027	446	52	1090	789	193
VIIGOGO IN JANAH	THE STATE OF THE S	\$	•	-	-	•	•	=	-	•	12	-	
CHLOROAROMAIICS	NEAACHLORUBUI AUI ENE	7	>	•	= 1	•	•	= :	•	•	4 9	•	,

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SUMMARY TABLE OF RESULTS (1989)

		SITE												
			RAN		=	TREATED		v,	SITE 1		•	SITE 2		
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE		TOTAL POSITIVE TRACE	TRA	<b></b>
CHLOROAROMATICS	1234 T-CHLOROBENZENE	12	•	٥	=	0	0	Ξ	0	٥	2		_	
	1235 T-CHLOROBENZENE	12	•	0	=	0	0	Ξ	0	•	12	Ĭ	_	0
	124 TRICHLOROBENZENE	12	0	0	Ξ	0	0	Ξ	0	0	12	_		0
	1245 T-CHLOROBENZENE	12	•	0	=	0	0	Ξ	0	0	12	Ī	_	0
	135 TRICHLOROBENZENE	12	•	0	=	0	0	=	0	٥	12	Ī	_	0
	HCB	12	•	0	=	0	0	=	•	0	12	Ī	_	0
	HEXACHLOROETHANE	12	•	0	Ξ	•	0	Ξ	0	0	12	•	_	0
	OCTACHLOROSTYRENE	12	•	0	=	•	0	Ξ	0	0	12	_	_	0
	PENTACHLOROBENZENE	12	•	0	Ξ	•	0	Ξ	0	0	12	_	_	0
	236 TRICHLOROTOLUENE	12	•	0	Ξ	0	0	=	0	0	12	_	_	0
	245 TRICHLOROTOLUENE	12	•	0	Ξ	0	0	Ξ	0	0	12	Ī	_	0
	26A TRICHLOROTOLUENE	12	•	•	Ξ	0	0	Ξ	0	0	12		_	0
*TOTAL SCAN CHLOROAROMATICS	OMATICS	<b>2</b> 2	0	0	154	0	0	154	0	0	168		_	•
CHLOROPHENOLS	234 TRICHLOROPHENOL	7	0	0	~	0	0			:				
	2345 T-CHLOROPHENOL	~	•	•	7	0	0	•	•	•	•			
	2356 T-CHLOROPHENOL	~	•	۰	~	0	•	•	•	•	٠			
	245-TRICHLOROPHENOL	8	•	۰	~	0	0	•	•	•	٠			
	246-TRICHLOROPHENOL	2	•	•	7	0	0	•	•	•	•			
	PENTACHLOROPHENOL	~	•		~	•	0	•	•	•	•			
*TOTAL SCAN CHLOROPHENOLS	ENOLS	12	•	•	12	0	0	0		0	0		_	0

TABLE 4

# DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SCAN					-				,				
РАН	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL	TREATED L POSITIVE	TRACE	TREATED SITE 1 TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TIVE TR	ACE 1	SII Total Pc	SITE 2 POSITIVE	TRACE
	PHENANTHRENE	12	٥	0	=	0	0						
	ANTHRACENE	12	0	0	=	•	0						•
	FLUORANTHENE	12	0	0	Ξ	0	0	•					
	PYRENE	12	0	0	Ξ	0	0			•			
	BENZO(A)ANTHRACENE	12	0	0	Ξ	0	0					•	•
	CHRYSENE	12	0	0	Ξ	0	0					•	•
	DIMETH. BENZ(A)ANTHR	•	0	0	2	0	•					•	•
	BENZO(E) PYRENE	12	0	0	Ξ	0	0					•	•
	BENZO(B) FLUORANTHEN	12	0	0	Ξ	0	0	•	•		•	•	•
	PERYLENE	12	0	0	Ξ	0	0					•	•
	BENZO(K) FLUORANTHEN	12	0	0	Ξ	0	0					•	•
	BENZO(A) PYRENE	•	0	0	•	0	0					•	•
	BENZO(G,H,I) PERYLEN	12	0	0	Ξ	0	•				•	•	•
	DIBENZO(A,H) ANTHRAC	12	0	0	Ξ	0	•					•	•
	INDENO(1,2,3-C,D) PY	12	0	0	Ξ	0	•				•	•	•
	BENZO(B) CHRYSENE	12	0	0	=	0	•					•	•
	CORONENE	12	0	0	Ξ	0	0					٠	•
*TOTAL SCAN PAH		192	0	0	ξį	0	0	0	0	0	0	0	0
PESTICIDES & PCB	ALDRIN	12	0	0	=	0	0	==	0	0	12	0	0
	ALPHA BHC	12	0	80	Ξ	0	7	=	0	7	12	0	80
	BETA BHC	12	0	0	Ξ	0	0	=	0	-	12	0	0
	LINDANE	12	0	0	Ξ	0	0	=	0	0	12	0	-

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SUMMARY TABLE OF RESULTS (1989)

		SITE											
			RAW		=	TREATED		•	SITE 1			SITE 2	
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TRACE
PESTICIDES & PCB	ALPHA CHLORDANE	5	٥	0	Ξ	0	0	=	٥	٥	12	0	
	GANNA CHLORDANE	12	0	0	Ξ	0	•	Ξ	0	0	12	0	Ī
	DIELDRIN	12	0	0	Ξ		0	=	0	0	12	0	Ū
	METHOXYCHLOR	12	0	0	Ξ	0	0	=	0	0	12	0	Ī
	ENDOSULFAN 1	12	0	•	Ξ	0	0	=	0	0	12	0	Ī
	ENDOSULFAN 11	12	•	•	Ξ	0	0	=	0	0	12	0	Ī
	ENDRIN	12	0	•	Ξ	0	0	Ξ	0	0	12	0	_
	ENDOSULFAN SULPHATE	12	0	0	Ξ	•	0	Ξ	0	0	12	0	_
	HEPTACHLOR EPOXIDE	12	0	0	Ξ	0	0	Ξ	0	0	12	•	_
	HEPTACHLOR	12	0	0	Ξ	0	0	Ξ	0	0	12	0	_
	MIREX	12	0	•	Ξ	•	0	Ξ	0	0	12	0	Ī
	OXYCHLORDANE	12	0	0	Ξ	•	0	Ξ	0	0	12	0	Ī
	CPDDT	12	•	•	Ξ	-	0	Ξ	0	0	12	0	_
	PCB	12	0	•	Ξ	-	0	Ξ	0	0	12	0	Ī
	000	12	0	0	=	-	0	Ξ	0	0	12	0	_
	PPODE	12	0	•	Ξ	-	0	Ξ	0	0	12	0	_
	PP001	12	0	0	Ξ	-	0	Ξ	0	0	12	0	_
	AMETRINE	12	•	•	Ξ	0	0	•	0	0	7	0	_
	ATRAZINE	12	•	-	Ξ	-	-	•	0	0	7	0	_
	ATRATONE	12	0	0	Ξ	•	0	•	0	0	7	0	Ī
	CYANAZINE (BLADEX)	12		0	Ξ	•	0	9	0	0	7	0	_
	D-ETHYL ATRAZINE	12	0	• ·	Ξ	•	0	9	0	0	7	0	_
	D-ETHYL SIMAZINE	12	0	0	Ξ	•	•	•	0	0	7	0	_
	PROMETONE	12	0	•	Ξ	•	•	9	0	0	7	0	_
	PROPAZ I NE	12	0	0	Ξ	•	0	•	0	0	7	0	Ī

# DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

		SITE											
SCAN	PARAMETER	TOTAL	RAW POSITIVE	TRACE	TREATED TOTAL POSITI	TED SITIVE TI	SACE	SET TOTAL PC	SITE 1 POSITIVE T	RACE	RAW TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	F.	ČE
PESTICIPES & PCR	PROMETRYNE	-2		C	12 0 0 11	-	-	•	•	-	7	-	-
	METRIBUZIN (SENCOR)	12	0	0	=	0	0	•	0	0	. ~		0
	SIMAZINE	12	0	0	Ξ	0	0	•	0	0	. ~		0
	ALACHLOR (LASSO)	12	0	0	=	0	0	9	0	0	7	0	0
	METOLACHLOR	12	0	0	=	0	0	9	0	0	7	0	0
*TOTAL SCAN PESTICIDES & PCB	ES & PCB	807	0	٥	374	0	<b>e</b> 0	309	0	80	343	0	•
of ionard	351 100 200	3		4	:	•	•				j.		
F NE MUL I CS	L HENOLICS	4	-	•	=	•	•		•	•			•
*TOTAL SCAN PHENOLICS	Ş	12	7	50	=	60	m	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						:							
SPECIFIC PESTICIDES	TOXAPHENE	12	0		=		0	=	0	0	12	0	0
	2,4,5-1	7	0	0	7	0	0		•	•			٠
	2,4-0	7	0	0	2	0	0	•	•	•			•
	2,4-08	7	0	0	7	0	0			•			٠
	2,4 D PROPIONIC ACID	7	0	0	~	0	0		•	•			•
	DICAMBA	2	0	0	7	0	0		•	•			٠
	PICHLORAM	0	0	0	0	0	0		٠	•		•	•
	SILVEX	2	0	0	2	0	0	•		•			•
	DIAZINON	2	0	0	7	0	0	•		•			•
	DICHLOROVOS	2	0	0	2	0	0	•		•			•
	CHICAPVETEOS	2	_	•	٠	•	_						

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

		SITE				:					•			
SCAN	PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL POSITI	SITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	KAN SILE 7 TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TRACE	
SPECIFIC PESTICIDES	ETHION	7	٥	0	7	0	0							:
	AZINPHOS-METHYL	0	0	0	0	0	0	•	•	•	•	•	•	
	MALATHION	2	0	0	~	0	0	•	•	•	•	•	•	
	MEVINPHOS	7	•	0	~	0	0	•	•	•	•	•	•	
	METHYL PARATHION	7	0	0	~	0	0	•	•	•	•	•	•	
	METHYLTRITHION	~	0	0	~	0	0	•	•	•	•	•	•	
	PARATHION	~	0	0	~	0	0	•	•	•	•	•	•	
	PHORATE	~	0	0	~	0	0	•	•	•	•	•	•	
	RELDAN	7	0	0	~	0	0	•	•	•	•	•	•	
	RONNEL	~	0	0	~	0	0	•	•	٠	٠	٠	٠	
	AMINOCARB	0	0	0	0	0	0	•	•	٠	•	•	•	
	BENONYL	-	0	0	-	0	0	•	•	•	•	•	•	
	BUX	٥	0	0	0	•	0	•	•	•	٠	٠	•	
	CARBOFURAN	7	•	0	~	0	0	•	•	•	•	•	•	
	CICP	~	•	•	7	0	0	•	•	•	•	•	•	
	DIALLATE	~	0	•	7	0	0	•	•	•	•	•	•	
	EPTAM	7	•	0	7	0	0	•	•	•	•	٠	•	
	190	7	•	0	7	0	0	•	•	•	•	•	•	
	PROPOXUR	7	0	0	~	0	0	•	•	•	•	•	•	
	CARBARYL	~	0	0	~	0	0	•	•	•	•	•	•	
	BUTYLATE	2	0	0	7	0	0	•	•	•	•	•	•	
*TOTAL SCAN SPECIFIC PESTICIDES	PESTICIDES	99	•		\$	0	0	Ξ	Ū	0	12	0	٥	
														:
VOLATILES	BENZENE	2	0	-	0	0	0	=		7 0	Ξ	0	7	

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TREATED TOTAL POSITIVE TRACE	TED SITIVE	TRACE	SITE 1 TOTAL POSITIVE TRACE	7. T.		SITE 2 TOTAL POSITIVE TRACE	E 78	j E
VOLATILES	TOLUENE	12	٥	0	2	0	5	=		9 0	11 0 5		5
	ETHYLBENZENE	12	0	7	Ç	0	m	Ξ	0	4	: <b>=</b>		. ~
	P-XYLENE	12	0	0	5	0	0	Ξ	0	0	=		0
	M-XYLENE	12	0	0	5	0	~	=	0	0	=		0
	O-XYLENE	12	0	0	9	0	7	Ξ	0	4	=		2
	STYRENE	12	-	9	0	0	•	Ξ	0	80	1		٥
	1,1 DICHLOROETHYLENE	12	0	0	0	0	0	=	0	0	=		0
	METHYLENE CHLORIDE	12	0	0	9	0	0	=	0	0	=		0
	T1, 201CHLOROETHYLENE	12	0	0	0	0	0	=	0	0	=		0
	1,1 DICHLOROETHANE	12	0	0	9	0	0	=	0	0	=		0
	CHLOROFORM	12	0	7	9	9	0	=	=	0	=	_	0
	111, TRICHLOROETHANE	12	0	m	9	-	-	=	0	7	=		-
	1,2 DICHLOROETHANE	12	0	0	9	0	0	Ξ	0	0	=		0
	CARBON TETRACHLORIDE	12	0	0	0	0	0	Ξ	0	0	=		0
	1,2 DICHLOROPROPANE	12	0	0	2	0	0	=	0	0	=		0
	TRICHLOROETHYLENE	12	0	0	9	0	0	=	0	0	=		0
	DICHLOROBROMOMETHANE	12	0	7	0	2	0	=	=	0	11	_	0
	112 TRICHLOROETHANE	12	0	0	9	0	0	=	0	0	=	0	0
	CHLOROD I BROMOMETHANE	12	0	0	0	2	0	=	Ξ	0	-	_	0
	T-CHLOROETHYLENE	12	0	0	0	0	0	=	0	-	=		-
	BROMOFORM	12	0	0	0	0	2	=	0	=	=		=
	1122 T-CHLOROETHANE	12	0	0	9	0	0	=	•	0	=		0
	CHLOROBENZENE	12	0	0	0	0	0	=	0	0	=		0
	1,4 DICHLOROBENZENE	12	0	0	0	0	0	=	0	0	=		0
	1,3 DICHLOROBENZENE	12	0	0	9	0	0	=	0	0	=		-

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW POSITIVE	TRACE	TOTAL	TREATED L POSITIVE	TRACE	TOTAL	SITE 1 POSITIVE	TRACE	RAW TREATED SITE 1 SITE 2 TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	SITE 2 . POSITIVE	TRACE
VOLATILES	VOLATILES 1,2 DICHLOROBENZEME 12 0 0 10 0 0 11 0 0 11 0 0	12	0	٥	2	0	0	=	0	٥	=	٥	•
	ETHLYENE DIBROMIDE	12	0	0	2	0	0	Ξ	0	0	Ξ	0	0
	TOTL TRIHALOMETHANES	12	0	0	9	10	0	Ξ	Ξ	0	Ξ	Ξ	•
*TOTAL SCAN VOLATILES		348	-	9	&	17	31	319	77	0,7	319	3	75
*TOTAL GROUP ORGANIC		1205	•	30	1080	67	75	8	77	87	842	4	73
													į
TOTAL		1810		121 525	1658	705	158	1853	767	223	1968	835	236

### KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
  - 1. Maximum Acceptable Concentration (MAC)
  - 1+. MAC for Total Trihalomethanes
  - 1\*. MAC for Bacteriological Analyses
     Poor water quality is indicated when :
    - total coliform counts > 0 < 5
    - P/A Bottle Test is present after 48 hours
    - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
    - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
    - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
  - 2. Interim Maximum Acceptable Concentration (IMAC)
  - 3. Maximum Desirable Concentration (MDC)
  - 4. Aesthetic or Recommended Operational Guideline
    - hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
  - 1. Maximum Acceptable Concentration (MAC)
  - 2. Proposed MAC
  - Interim MAC
  - Aesthetic Objective (AO) (for xylenes, the AO is a total)
- C WORLD HEALTH ORGANIZATION (WHO)
  - Guideline Value (GV)
  - 2. Tentative GV
  - 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
  - Maximum Contaminant Level (MCL)
  - Suggested No-Adverse Effect Level (SNAEL)
  - 3. Lifetime Health Advisory
  - 4. EPA Ambient Water Quality Criteria
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
  - 1. Health Related Guideline Level
  - 2. Aesthetic Guideline Level
  - Maximum Admissable Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

### INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:

1. Exclude the low-level data because of this uncertainty factor.

Studies of long-term environmental trends and modelling may however, be adversely affected by the exclusion of such data.

2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported with the code "<T". Results qualified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. The average of such data however, is still only an estimate of the amount of substance present subject to the possible biases of the method used.

### LABORATORY RESULTS, REMARK DESCRIPTIONS

•	No Sample Taken
BDL	Below Minimum Measurable Amount
<t< td=""><td>Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)</td></t<>	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!cs	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!IV	No Data: Inverted Septum
!LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded

! NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
! NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
! QU	No Data: Quality Control Unacceptable
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
! SM	No Data: Sample Missing
!ss	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UAL	Unreliable: Sample Age Exceeds Normal Limit
UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
USD	Unreliable: Sample Decomposition Noted

UCS Unreliable: Contamination Suspected

USD Unreliable: Sample Decomposition Noted

UIN Unreliable: Indeterminant Interference

XP Positive After X Number of Hours

T# (T06) Result Taken After # Hours

TABLE 5

### DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	BACTER	IOLOGICAL				
FECAL COLIFORM	MF (CT/100	OML )	DET'N L	IMIT = 0	GUIDEL INE	= 0 (A1)
JAN	0 124					
FEB	0 T24					•
MAR	1 T06					•
APR	0					
MAY	2	•				•
JUN	5	•				•
JUL	0	•	•		•	•
AUG	C	•	•			•
SEP	0					•
OCT	7	•			•	•
NOV	0	•			•	•
DEC	2	•	•		•	•
STANDED PLATE	CNT MF (	) .	DET'N L	IMIT = 0	GUIDELINE	= 500/ML (A1)
JAN		0 <=>		20	T06 .	2 <=>
FEB		3 <=>		1	<=> .	1 <=>
MAR		0 <=>		5	<=> .	0 <=>
APR		2 <=>			<=> .	1 <=>
MAY		•				1 <=>
JUN		2 <=>		1	<=> .	25
JUL		0 <=>		12		3 <=>
AUG	•	3 <=>		18		1 <=>
SEP	•	0 <=>		5	<=> .	5 <=>
OCT	•	1 <=>	•	0	<=> .	0 <=>
NOV	•	1 <=>		3	<=> .	1 <=>
DEC		7 <=>	•	7	<=> .	0 <=>
TOTAL COLIFORM	MF (CT/1D0	ML )	DET'N L	IMIT = 0	GUIDELINE :	= 5/100ML(A1)
JAN	3 T24	0 T24		0	T06 .	0 124
FEB	11 124	0 124		0	T06 .	0 124
MAR	6 106	1 T06		0	T06 .	0 106
APR	8	0		0		0
MAY	63					0
JUN	25 A3C	0	•	0		0
JUL	O.	0	•	0		0
AUG	0	0		0	•	0
SEP	5 A3C	D		0		0
OCT	84 A3C	0		0	•	0
NOV	40	0	•	0		0
DEC	4D <=>	0	•	0	•	0
T COLIFORM BCKG	GRD MF (CT/	100ML )	DET'N L	MIT = 0	GUIDELINE :	= N/A
JAN	11 T24	0 T24	_	n	T06 .	0 124
FEB	102 124	0 124	•		106	0 124
MAR	50 T06	0 106			106	0 106
			•	•	•	0.50

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
	• • • • • • • • • • • • • • • • • • • •		STANDING	FREE FLOW	STANDING	FREE FLOW
APR	61	0		0	•	0
MAY	155					0
JUN	1070 A	·3c 0	•	0		0
JUL	3	0		0		0
AUG	2400 >	0		0		4
SEP	1600 A	.3c 0	•	0	•	0
OCT	1200 /	.3C 0		1		0
NOV	124	0		0		0
OEC	90 <	·=> 0	•	0	•	0

TABLE 5

### DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

### WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEMIS	TRY (FLD)	•••••			
FLD CHLORINE		)	DET'N L	IMIT = N/A	GUIDELINE =	N/A
JAN		4 270	4 400	1.300	.300	.900
FEB	•	1.270 1.210	1.100 1.200	1.300	.300	.700
MAR	•	1.210	.900	1.300		.900
APR	•	1.150	.500	1.100	.300	.900
MAY	•	1.150			.300	.400
JUN	.000	.890	.900	.900	.000	.700
JUL	.000		****	• • • • •	.000	
AUG	•	1.170	.300	1.100	•	.700
	•	1.210	.100	1.000	•	.700
SEP	•	1.120	.300	.900	•	.500
OCT	•	.970	.100	1.100		.500
NOV	•	1.180	.100	1.000	.000	.700
DEC		1.110	.500	1.200		.900
FLD CHLORINE	FREE (	)	DET'N L	IMIT = N/A	GUIDELINE =	N/A
JAN						.300
FEB				1.300		
MAR			, i			.300
APR	-		.500		•	
HAY				•	•	.300
JUN	.000	.000	.000	.000	.000	.000
JUL		.000	.000	.000		
AUG	-	.000	.000	.000	•	•
SEP	•	.000	.000	.000	•	•
OCT	•	.000	.000	.000	•	•
NOV	•	.000	.000	.100	.000	.000
DEC		.000	.000	.000	.000	.000
LD CHLORINE	(TOTAL) (	)	DET'N L		GUIDELINE =	N/A
JAN	•	1.270	1.100	1.300	.300	1.200
FEB	•	1.210	1.200	1.300	.300	.700
MAR	•	1.200	.900	1.300		1.200
APR	•	1.150	.500	1.100	.300	.900
MAY	:	•	•	•	•	.700
JUN	.000	.890	.900	.900	.000	.700
JUL	•	1.170	.300	1.100		.700
AUG	•	1.210	.100	1.000	•	.700
SEP	•	1.120	.300	.900		.500
OCT	•	.970	.100	1.100		.500
NOV		1.180	.100	1.100	.000	.700
DEC	•	•	.500	1.200	•	.900
FLD PH (DMNS	LESS )		DET'N L	IMIT = N/A	GUIDELINE =	6.5-8.5(A4)
JAN	7.700	7.300	7.600	7.400	7.400	7.400
FEB	7.750	7.300	7.600	7.800	7.200	7.400
MAR	7.800	7.450				
na.	7.000	7.430	7.600	7.800	7.400	7.600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	7.650	7.300	7.600	7.800	7.400	7.600
MAY	8.000					
JUN	8.100	7.550	7.700	7.600	7.600	7.400
JUL	7.900	7.400	7.600	7.700	7.400	7.400
AUG	8.050	7.400	7.500	7.600	8.000	8.200
SEP	7.800	7.200	7.400	7.600	7.400	7.400
OCT			7.200	7.600	7.600	7.600
NOV	7.500	7.200	7.400	7.600	7.400	7.600
DEC		•	7.600	•	7.400	7.600
FLD TEMPE	RATURE (DEG.C	)	DET'N LI	MIT = N/A	GUIDELINE =	15 (A1)
JAN	6.000	6.000	6.000	5.000	18.000	9.000
FEB	6.000	6.000	6.000	4.000	14.000	8.000
MAR	7.000	7.000	6.000	4.000	20.000	6.000
APR	8.000	8.000	15.000	8.000	20.000	8.000
MAY	12.000				20.000	11.000
JUN	18.000	18.000	24.000	17.000	22.000	15.000
JUL	21.000	21.000	23.000	21.000	23,000	17.000
AUG	22.000	22.000	23.000	22.000	21.000	19.000
SEP	19.000	19.000	22.000	21.000		.•
OCT	13.000	13.000	18.000	15.000		•
NOV	9.000	9.000	13.000	9.000	22.000	11.000
DEC	4.000	4.000	8.000	6.000	22.000	8.000
FLD TURBIC	DITY (FTU	)	DET'N LI	MIT = N/A	GUIDELINE =	1.0 (A1)
JAN	.800	.100			•	•
FEB	1.700	.120	•			
MAR	2.400	.300				
APR	.700	.130				
MAY	1.100				•	
JUN	1.400	.210		•	•	
JUL	2.600	.140				•
AUG	2.200	.200				•
SEP	1.500	.140				
OCT	2.700	.070				
NOV	1.100	.070				
	1.200	.050	•	•	•	•

TABLE 5

### DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
		RY (LAB)				
ALKALINIT		KI (LAB)	DETIN II	MIT = .200	GUIDELINE =	70-500 (4/)
ACKALIKII	(Hu/L )		DEL-M CI	HII = .200	GOIDELINE =	30-300 (A4)
JAN	101.400	94.000	95.700	95,400	96.700	96,300
FEB	103.000	97.300	97.000	97.200	97.900	97.300
MAR	99.800	93.300	94.700	94.800	93.900	93.800
APR	101.700	94.000	95.600	95.700	96.100	96.000
MAY	102.900			•	95.200	95.000
JUN	100.700	95.100	94.700	95.000	96.100	96.800
JUL	IUR	IUR	94.100	93.500	97.100	97.800
AUG	96.800	91.300	91.800	91.800	93.000	93.900
SEP	94.900	88.500	88.700	88.700	89.000	89.900
OCT	100.800	91.800	92.800	93.100	96.100	96.300
NOV	101.400	95.700	96.600	96.600	96.200	96.300
DEC	102.600	97.900	98.400	99.000	98.600	98.300
CALCIUM ()	(G/L )		DET'N LI	MIT = .100	GUIDELINE =	100 (F2)
MAL	39.200	39,000	39,200	38.800	41.600	41,400
FEB	41.000	41.000	41.200	41.000	41.200	40.800
MAR	42.800	43.600	43,400	42.800	42,200	42.600
APR	41.000	41.800	39.800	40.600	40.600	41,400
MAY	40.400				39.800	40.200
JUN	39.800	39.200	39,600	39.200	42.000	41,200
JUL	35.400	34.200	36,400	35.800	38.600	38.400
AUG	38.200	37.600	38.600	37.200	41.000	40.800
SEP	38.600	38.800	39.000	39.000	39.600	40.200
OCT	40.000	38.800	39.000	39.600	42,000	41,800
NOV	41.000	41.600	41.000	40.600	42.600	43.600
DEC	39.800	39.700	40.400	40.500	39.700	40.000
CHLORIDE (	MG/L )		DET'N LII	MIT = .200	GUIDELINE =	250 (A3)
JAN	23.000	25.000	24.900	24.800	25.400	25,400
FEB	25.100	26.300	27.300	27.100	25,100	25,100
MAR	26.000	33,400	32.800	32.800	35.500	34.900
APR	26.000	28.300	27.500	27.800	27.400	27.300
MAY	29.600			2	30.700	30.400
JUN	23.400	25.500	25.800	25.600	26.700	26.800
JUL	22.400	24,600	25.200	25.000	27,000	27.000
AUG	22.700	24.500	25.400	25.200	25.700	25,600
SEP	22.400	24.900	25.900	24.900	27.200	26.900
OCT	24.400	26.400	26.100	26,500	26.600	26.500
NOV	22.200	24.200	24.500	24.200	25.700	25.700
DEC	22.800	24.800	25.500	25.300	26.200	26.300
COLOUR (HZ	) )	•	DET'N LIP	(IT = .5	GUIDELINE = !	5.0 (A3)
JAN	1.000 <t< td=""><td>.500 <t< td=""><td>1.500 <t< td=""><td>1.500 &lt;ī</td><td>1.000 <t< td=""><td>.500 &lt;1</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.500 <t< td=""><td>1.500 &lt;ī</td><td>1.000 <t< td=""><td>.500 &lt;1</td></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.500 &lt;ī</td><td>1.000 <t< td=""><td>.500 &lt;1</td></t<></td></t<>	1.500 <ī	1.000 <t< td=""><td>.500 &lt;1</td></t<>	.500 <1
FEB	2.000 <t< td=""><td>.500 <t< td=""><td>1.000 &lt;7</td><td>1.000 &lt;7</td><td>.500 <t< td=""><td></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 &lt;7</td><td>1.000 &lt;7</td><td>.500 <t< td=""><td></td></t<></td></t<>	1.000 <7	1.000 <7	.500 <t< td=""><td></td></t<>	
MAR	2,500	1.000 <t< td=""><td>2.000 &lt;7</td><td>2.000 &lt;1</td><td>1.500 <t< td=""><td>90L</td></t<></td></t<>	2.000 <7	2.000 <1	1.500 <t< td=""><td>90L</td></t<>	90L
		1,1000 11	2.000 (1	2.000 (1	1.500 <1	1.000 <t< td=""></t<>

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

MATER TREATMENT PLANT DISTRIBUTION SYSTEM

MAY 2.500		RAW	TREATED	SITE 1		SITE 2	
MAY				STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	APR	2.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""><td>.500 &lt;7</td></t<></td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""><td>.500 &lt;7</td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""><td>.500 &lt;7</td></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.000 <t< td=""><td>.500 &lt;7</td></t<></td></t<>	1.000 <t< td=""><td>.500 &lt;7</td></t<>	.500 <7
JUN							1.000 <7
JUL				1.500 <t< td=""><td>1,500 &lt;7</td><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1,500 <7	1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
SEP 2.000 <t 1.000="" 1.500="" 2.000="" <<="" <t="" td=""><td></td><td></td><td></td><td></td><td></td><td>.500 <t< td=""><td>.500 <t< td=""></t<></td></t<></td></t>						.500 <t< td=""><td>.500 <t< td=""></t<></td></t<>	.500 <t< td=""></t<>
SEP 2.000 <t 1.000="" 1.500="" 2.000="" <<="" <t="" td=""><td>AUG</td><td>2.000 <t< td=""><td>1,000 <t< td=""><td>1.000 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<></td></t>	AUG	2.000 <t< td=""><td>1,000 <t< td=""><td>1.000 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	1,000 <t< td=""><td>1.000 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<>	2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<>	1.500 <t< td=""></t<>
NOV				1.500 <t< td=""><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	2.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
DEC   2.000 < T   1.000 < T   1.500 < T   1.500 < T   1.000 < T	OCT	2.500	1,000 <t< td=""><td>1.500 &lt;7</td><td>2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<></td></t<>	1.500 <7	2.000 <t< td=""><td>1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>1.500 <t< td=""></t<></td></t<>	1.500 <t< td=""></t<>
DEC 2.000 <t 1.000="" 1.500="" <<="" <t="" td=""><td>NOV</td><td>1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 &lt;7</td><td>1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t>	NOV	1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 &lt;7</td><td>1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 &lt;7</td><td>1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	1.000 <7	1.500 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
DET'N LIMIT = 1   GUIDELINE = 400 (F2)	DEC	2.000 <t< td=""><td></td><td>1.500 &lt;1</td><td>1.500 <t< td=""><td></td><td>1.000 &lt;7</td></t<></td></t<>		1.500 <1	1.500 <t< td=""><td></td><td>1.000 &lt;7</td></t<>		1.000 <7
FEB 342 343 344 345 338 336 336 MAR 340 370 364 364 377 373 373 APR 348 352 348 349 349 349 348 MAY 355	CONDUCTIV	ITY (UMHO/CM )		DET'N LI	MIT = 1		
MAR 340 370 364 364 377 373  APR 348 352 348 349 349 349 348  MAY 3555	JAN	324	327	330	328		
APR 348 352 348 349 349 349 348  MAY 355	FEB	342	343	344	345	338	
MAY 355	MAR	340	370	364			
JUN 328 331 332 330 339 340  JUL 1UR 1UR 328 324 342 341  AUG 314 320 324 323 327 327  SEP 313 319 324 320 332 332  OCT 331 333 331 332 340 341  NOV 324 327 330 328 333 331  DEC 331 334 337 335 341 341  FLUORIDE (MG/L )  DET'N LIMIT = .01 GUIDELINE = 2.400 (A1)  JAN .140 1.080 1.200 1.200 .960 .960  FEB .140 1.020 .980 .980 1.160 1.160  MAR .140 1.260 1.040 1.020 1.120 1.100  APR .160 1.220 1.120 1.000 1.100 1.080  MAY 1.180 1.040 1.040  JUN .120 .880 1.140 1.040 1.040 1.040  JUN .120 .880 1.140 1.040 1.040 1.040  JUL .100 .860 .320 .760 1.040 1.040  JUL .100 .860 .320 .760 1.040 1.040  JUL .100 .860 .960 .960 .960  SEP .120 1.000 1.040 1.060 1.060 1.060  OCT .160 1.200 1.120 1.000 1.060 1.060  OCT .160 1.200 1.120 1.180 1.100 1.080  MOY .120 .840 .940 .940 .960 .960  SEP .120 1.000 1.000 1.060 1.060 1.060  DCT .160 1.200 1.120 1.180 1.100 1.080  MOY .120 .840 .940 .940 .960 .960  SEP .120 1.000 1.000 1.060 1.060 1.060  DCT .160 1.200 1.120 1.180 1.100 1.080  MOY .120 .840 .940 .960 .960  SEP .120 1.000 1.000 1.000 1.060 1.060 1.060  DCT .160 1.200 1.120 1.180 1.100 1.080  MOY .120 .840 .940 1.080 1.000 1.080  DCT .160 1.200 1.33.000 133.000 135.000 135.000 135.000 136.000  MAR 139.000 139.000 139.000 139.000 138.000 136.000 136.000  MAR 139.000 133.000 133.000 133.000 136.000 135.000 137.000  MAY 136.000	APR	348	352	348	349	349	- :-
JUL 1UR 1UR 328 324 342 341 AUG 314 320 324 325 327 327 SEP 313 319 324 320 332 332 OCT 331 333 331 333 331 332 330 DCC 331 333 331 333 331 332 333 DEC 331 334 327 330 328 333 333 DEC 331 334 337 335 341 341  FLUORIDE (MG/L ) DET'N LIMIT = .01 GUIDELINE = 2.400 (A1)  JAN .140 1.080 1.200 1.200 .960 .960 .960 MAR .140 1.020 .980 .980 1.160 1.160 MAR .140 1.260 1.040 1.020 1.120 1.100 1.080 MAY .180	MAY	355	•	•	•		
AUG 314 320 324 323 327 327 327 SEP 313 319 324 320 332 332 332 OCT 331 333 331 332 340 341 NOV 324 327 330 328 333 333 DEC 331 334 337 335 341 341 341 341 341 341 341 341 341 341	JUN	328	331	332			
SEP         313         319         324         320         332         332           OCT         331         333         331         332         340         341           MOV         324         327         330         328         333         333           DEC         331         334         337         335         341         341           FEUORIDE (MG/L         )         DET'N LIMIT = .01         GUIDELINE = 2.400 (A1)           JAN         .140         1.080         1.200         1.200         .960         .960           FEB         .140         1.020         .980         980         1.160         1.160           MAR         .140         1.260         1.040         1.020         1.100         1.000           APR         .160         1.220         1.120         1.000         1.100         1.080           MAY         .180         .         .         .         .         1.040         1.040           JUN         .120         .880         1.140         1.040         1.040         1.040           AUG         .140         .980         .940         .940         .960	JUL	IUR	IUR	328	324		
OCT 331 333 331 332 340 341  NOV 324 327 330 328 333 333 333  DEC 331 334 337 335 341 341  FLUORIDE (MG/L ) DET'N LIMIT = .01 GJIDELINE = 2.400 (A1)  JAN .140 1.080 1.200 .980 .980 1.160 1.160  MAR .140 1.260 1.040 1.020 1.120 1.120 1.100  APR .160 1.220 1.120 1.000 1.100 1.080  MAY .180 1.040 1.040  JUN .120 .880 1.140 1.040 1.040  JUN .120 .880 1.140 1.040 1.040  AUG .140 .980 .940 .940 1.040 1.040  AUG .140 .980 .940 .940 .960 .960  SEP .120 1.000 1.040 1.060 1.060  OCT .160 1.200 1.120 1.180 1.060 1.060  OCT .160 1.200 1.120 1.180 1.100 1.080  NOV .120 .840 .940 .940 .960 .960  DEC .140 .140 .140 .160 .160 .100 .100 .100  HARDNESS (MG/L ) DET'N LIMIT = .500 GJIDELINE = 80-100 (A4)  HARDNESS (MG/L ) DET'N LIMIT = .500 J3.000 138.000 136.000  MAR 139.000 139.000 139.000 139.000 139.000 138.000 136.000  MAR 139.000 143.000 143.000 143.000 143.000 143.000 143.000 143.000 143.000 143.000 143.000 143.000 135.000 JUN 134.000 135.000 135.000 JUN 134.000 135.000 J37.000 J37.000	AUG	314	320	324	323		
NOV   324   327   330   328   333   333   333   334   337   335   341	SEP	313	319	324			
DEC 331 334 337 335 341 341  FLUORIDE (MG/L )	OCT	331	333	331		340	
FLUORIDE (MG/L )  DET'N LIMIT = .01  GUIDELINE = 2.400 (A1)  JAN .140	MOA	324	327	330			
JAN .140 1.080 1.200 1.200 .960 .960  FEB .140 1.020 .980 .980 1.160 1.160  MAR .140 1.260 1.040 1.020 1.120 1.100  APR .160 1.220 1.120 1.000 1.100 1.080  MAY .180	DEC	331	334	337	335	341	341
FEB .140 1.020 .980 .980 1.160 1.160  MAR .140 1.260 1.040 1.020 1.120 1.100  APR .160 1.220 1.120 1.000 1.000 1.000 1.080  MAY .180	FLUORIDE	(MG/L )		DET'N LI	MIT = .01	GUIDELINE = 3	2.400 (A1)
MAR .140 1.260 1.040 1.020 1.120 1.100  APR .160 1.220 1.120 1.000 1.100 1.080  MAY .180	JAN	.140	1.080	1.200	1.200	.960	.960
APR	FEB	.140	1.020	.980	. 980	1.160	1.160
MAY .180	MAR	.140	1.260	1.040	1.020	1.120	1.100
JUN .120 .880 1.140 1.040 1.040 1.040 1.040  JUL .100 .860 .320 .760 1.040 1.040  AUG .140 .980 .940 .940 .960 .960  SEP .120 1.000 1.040 1.060 1.060 1.060  OCT .160 1.200 1.120 1.180 1.100 1.080  MOV .120 .840 .940 1.080 1.000 .960  DEC .140 .140 .160 .160 .160 .160 .180  HARDNESS (MG/L ) DET'N LIMIT = .500 GUIDELINE = 80-100 (A4)  JAN 133.000 132.000 133.000 131.000 139.000 138.000 136.000  MAR 139.000 143.000 143.000 140.000 143.000 143.000  APR 137.000 139.000 133.000 136.000 136.000 137.000  MAY 136.000	APR	.160	1.220	1.120	1.000	1.100	1.080
JUL .100	MAY	.180				1.040	1.040
AUG .140 .980 .940 .940 .960 .960 .960  SEP .120 1.000 1.040 1.060 1.060 1.060 1.060  OCT .160 1.200 1.120 1.180 1.100 1.080  MOV .120 .840 .940 1.080 1.000 .960  DEC .140 .140 .160 .160 .160 .160 .180  HARDNESS (MG/L ) DET'N LIMIT = .500 GUIDELINE = 80-100 (A4)  JAN 133.000 132.000 133.000 131.000 139.000 138.000 136.000  FEB 139.000 139.000 139.000 139.000 138.000 136.000  MAR 139.000 143.000 143.000 140.000 143.000 143.000  APR 137.000 139.000 133.000 136.000 136.000 137.000  MAY 136.000	JUN	.120	.880	1.140	1.040	1.040	1.040
SEP         .120         1.000         1.040         1.060         1.060         1.060           OCT         .160         1.200         1.120         1.180         1.100         1.080           MOV         .120         .840         .940         1.080         1.000         .960           DEC         .140         .140         .160         .160         .160         .180           HARDNESS (MG/L         )         DET'N LIMIT = .500         GUIDELINE = 80-100 (A4)           JAN 133.000         132.000         133.000         131.000         139.000         138.000           FEB 139.000         139.000         139.000         139.000         138.000         136.000           MAR 139.000         143.000         143.000         140.000         143.000         143.000           MAY 136.000         139.000         133.000         136.000         136.000         135.000           JUN 134.000         133.000         133.000         132.000         139.000         137.000	JUL	.100	.860	.320	.760	1.040	1.040
OCT         .160         1.200         1.120         1.180         1.100         1.080           NGV         .120         .840         .940         1.080         1.000         .960           DEC         .140         .140         .160         .160         .160         .180           HARDNESS (MG/L         )         DET'N LIMIT = .500         GUIDELINE = 80-100 (A4)           JAN 133.000         132.000         133.000         131.000         139.000         138.000           FEB 139.000         139.000         139.000         139.000         138.000         136.000           MAR 139.000         143.000         143.000         143.000         143.000         143.000           MAY 136.000         .         .         .         .         .         .           JUN 134.000         133.000         133.000         132.000         139.000         137.000	AUG	. 140	.980	.940	.940	.960	
NOV         .120         .840         .940         1.080         1.000         .960           DEC         .140         .140         .160         .160         .160         .180           HARDNESS (MG/L)         DET'N LIMIT = .500         GUIDELINE = 80-100 (A4)           JAN 133.000         132.000         133.000         131.000         139.000         139.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         138.000         136.000	SEP	.120	1.000	1.040	1.060	1.060	1.060
DEC .140 .140 .160 .160 .160 .180  HARDNESS (MG/L ) DET'N LIMIT = .500 GUIDELINE = 80-100 (A4)  JAN 133.000 132.000 133.000 131.000 139.000 138.000  FEB 139.000 139.000 139.000 139.000 138.000 136.000  MAR 139.000 143.000 143.000 140.000 143.000 143.000  APR 137.000 139.000 133.000 136.000 136.000 137.000  MAY 136.000	OCT	.160	1.200	1.120	1.180	1.100	1.080
HARDNESS (MG/L ) DET'N LIMIT = .500 GUIDELINE = 80-100 (A4)  JAN 133.000 132.000 133.000 131.000 139.000 138.000 FEB 139.000 139.000 139.000 139.000 138.000 136.000 MAR 139.000 143.000 143.000 140.000 143.000 143.000 APR 137.000 139.000 133.000 136.000 136.000 137.000 MAY 136.000	NOV	.120	.840	.940	1.080	1.000	
JAN 133.000 132.000 133.000 131.000 139.000 138.000 136.000 139.000 139.000 136.000 136.000 136.000 136.000 136.000 136.000 136.000 143.000 143.000 143.000 143.000 143.000 136.000 136.000 137.000 MAY 136.000 139.000 133.000 136.000 136.000 135.000 JUN 134.000 133.000 133.000 132.000 139.000 137.000	DEC	.140	.140	.160	.160	.160	.180
FEB         139.000         139.000         139.000         139.000         138.000         136.000           MAR         139.000         143.000         140.000         143.000         143.000           APR         137.000         139.000         133.000         136.000         136.000         137.000           MAY         136.000         133.000         132.000         139.000         139.000         137.000           JUM         134.000         133.000         133.000         132.000         139.000         137.000	HARDNESS	(MG/L )		DET'N LI	MIT = .500	GUIDELINE =	80-100 (A4)
MAR     139.000     143.000     143.000     143.000     143.000     143.000       APR     137.000     139.000     133.000     136.000     136.000     137.000       MAY     136.000     .     .     134.000     135.000       JUN     134.000     133.000     132.000     139.000     137.000	JAN			133.000	131.000		
APR     137.000     139.000     133.000     136.000     136.000     137.000       MAY     136.000     .     .     .     134.000     135.000       JUH     134.000     133.000     132.000     139.000     137.000	FEB	139.000	139.000	139.000	139.000		
MAY 136.000							
JUM 134.000 133.000 133.000 132.000 139.000 137.000	APR	137.000	139.000	133.000	136.000		
	MAY	136.000	•		•	134.000	
JUL 123.000 119.000 126.000 124.000 131.000 131.000	JUN	134.000	133.000	133.000	132.000	139.000	
					124.000		
AUG 132.000 128.000 132.000 128.000 137.000 137.000	AUG	132.000	128.000	132.000	128.000	137.000	137.000

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	131,000	131.000	132.000	131.000	133.000	134,000
OCT	134.000	132.000	132.000	133.000	140.000	139.000
NOV	137.000	140.000	138.000	137.000	142.000	145.000
DEC	133.400	133.700	135.300	135.200	133.100	134.100
IONCAL (D	MNSLESS )	•	DET'N LI	MIT = N/A	GUIDELINE =	N/A
JAN	2.372	.741	1.008	1.733	1.369	1.570
FEB	1.576	3.646	3.034	3.188	2.725	1.926
MAR	3.486	3.762	3.487	2.785	3.000	4.004
APR	1.358	1.395	.978	.102	.206	1.163
MAY	5.062	•		•	2.782	2.324
JUN	.395	1.158	.460	.372	2.629	.966
JUL	.000 NAF	.000 NAF	4.146	4.432	2.986	3.144
AUG	.667	2.474	. 135	2.705	1.573	1.507
SEP	1.305	2.077	2.249	2.552	1.097	2.584
OCT	2.132	.558	.964	.021	.859	.334
NOV	.425	3.019	1.378	1.356	2.521	4.872
DEC	3.985	4.044	2.870	2.565	4.672	4.263
LANGELIER	S INDEX (DMNSLESS	3 )	DET'N LI	MIT = N/A	GUIDELINE =	N/A
JAN	.356	.100	.090	.024	.110	.226
FEB	.510	.335	.356	.345	.311	.314
MAR	.475	.261	.256	.271	.149	.173
APR	.494	.538	.544	.493	.555	.573
MAY	.562				.332	.386
JUN	.439	.287	.320	.307	.331	.356
JUL		•	.361	.421	.478	.499
AUG	.415	. 152	.156	.140	.227	.229
SEP	.371	.233	.215	.256	.223	.254
OCT	.391	.287	.284	.322	.431	.389
NOV	.455	.316	.314	.309	.268	.299
DEC	.587	.575	.484	.588	.567	.499
MAGNESIUM	(MG/L )		OET'N LI	MIT = .050	GUIDELINE =	30 (F2)
JAN	8.500	8.400	8.400	8.400	8.500	8.500
FEB	8.900	8.900	8.800	8.900	8.500	8.400
MAR	7.900	8.300	8.500	8.200	9.000	8.800
APR	8.300	8.300	8.200	8.400	8.400	8.200
MAY	8.500				8.400	8.400
	8.400	8.400	8.300	8.300	8.300	8,400
JUN			0 100	8,400	8,500	8,500
JOF JOH	8.300	8.200	8.400			
	8.300 8.800	8.200 8.400	8.600	8.600	8.400	8.500
JUL						
JUL	8.800	8.400	8.600	8.600	8.400	8.500
JUL AUG SEP	8.800 8.300	8.400 8.400	8.600 8.500	8.600 8.300	8.400 8.200	8.500 8.300

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SODIUM (M	G/L )		DET'N LI	MIT = .200	GUIDELINE =	200 (C3)
JAN	12.200	12.200	12.400	12.200	12.400	12.200
FEB	14.000	14.000	14.000	14.000	12.600	12.600
MAR	13.600	16.600	16.200	16.000	17.800	17.800
APR	13.600	13.800	13.800	13.200	13.200	13.600
MAY	15.200				15.000	14.800
JUN	12.600	12.400	12.800	12.600	13.400	13.200
JUL	12.000	12.400	11.800	12.400	13.200	13.200
AUG	12.600	11.600	12.200	11.800	12.000	12.000
SEP	11.800	11,800	12.000	11.800	12.800	12.800
OCT	13.000	12.600	12.400	12.600	12.600	12.400
NOV	11.400	11.600	11.800	11.800	11.600	11.800
DEC	11.600	11.300	11.800	11.900	12.300	12.100
AMMONTUM 1	TOTAL (MG/L	)	DET'N L	MIT = 0.002	GUIDELINE =	.05 (F2)
JAN	.004 <t< td=""><td>.078</td><td>. 174</td><td>.172</td><td>.186</td><td>.156</td></t<>	.078	. 174	.172	.186	.156
FEB	.054	.224	.184	.188	.188	.186
MAR	.012	.214	.224	.222	.170	. 156
APR	.056	.166	.210	.220	.160	.172
MAY	.096			•	.146	.130
JUN	.030	.182	.158	.174	.124	.160
JUL	.034	. 188	.170	. 190	.078	.172
AUG	.028	. 198	.226	.180	.050	.170
SEP	.018	.200	. 186	.174	BOL	.146
OCT	.026	.388	.158	.198	.132	.130
NOV	.002 <t< td=""><td>.110</td><td>.124</td><td>.214</td><td>.142</td><td>.122</td></t<>	.110	.124	.214	.142	.122
DEC	BOL	.120	. 158	.190	. 126	. 152
ITRITE (	IG/L )		DET'N L	MIT = 0.001	GUIDELINE =	1.000 (A1)
JAN	.001 <t< td=""><td>.001 &lt;7</td><td>.003 &lt;1</td><td>r .002 <t< td=""><td>.009</td><td>.003 &lt;7</td></t<></td></t<>	.001 <7	.003 <1	r .002 <t< td=""><td>.009</td><td>.003 &lt;7</td></t<>	.009	.003 <7
FEB	.006	.001 <t< td=""><td>.001 &lt;1</td><td>.001 <t< td=""><td>.007</td><td>.003 <t< td=""></t<></td></t<></td></t<>	.001 <1	.001 <t< td=""><td>.007</td><td>.003 <t< td=""></t<></td></t<>	.007	.003 <t< td=""></t<>
MAR	.004 <t< td=""><td>BOL</td><td>.001 &lt;1</td><td>.001 <t< td=""><td>.014</td><td>.006</td></t<></td></t<>	BOL	.001 <1	.001 <t< td=""><td>.014</td><td>.006</td></t<>	.014	.006
APR	.007	.001 <t< td=""><td>.003 &lt;</td><td>T&gt; 100.</td><td>.019</td><td>.005</td></t<>	.003 <	T> 100.	.019	.005
MAY	.017				.022	.003 <7
JUN	.006	BOL	.003 <1	.001 <t< td=""><td>.053</td><td>.008</td></t<>	.053	.008
JUL	.003 <t< td=""><td>.001 <t< td=""><td>.008</td><td>.006</td><td>.118</td><td>.011</td></t<></td></t<>	.001 <t< td=""><td>.008</td><td>.006</td><td>.118</td><td>.011</td></t<>	.008	.006	.118	.011
AUG	.008	.001 <t< td=""><td>.006</td><td>.005</td><td>.133</td><td>.004 <t< td=""></t<></td></t<>	.006	.005	.133	.004 <t< td=""></t<>
SEP	.006	.001 <t< td=""><td>.027</td><td>.016</td><td>.208</td><td>.059</td></t<>	.027	.016	.208	.059
OCT	.013	.002 <7	.006	.004 <t< td=""><td>.022</td><td>.004 <t< td=""></t<></td></t<>	.022	.004 <t< td=""></t<>
NOV	.003 <t< td=""><td>.001 <t< td=""><td>.002 &lt;1</td><td>T&gt; .001 <t< td=""><td>.010</td><td>.003 <t< td=""></t<></td></t<></td></t<></td></t<>	.001 <t< td=""><td>.002 &lt;1</td><td>T&gt; .001 <t< td=""><td>.010</td><td>.003 <t< td=""></t<></td></t<></td></t<>	.002 <1	T> .001 <t< td=""><td>.010</td><td>.003 <t< td=""></t<></td></t<>	.010	.003 <t< td=""></t<>
DEC	.002 <t< td=""><td>.001 <t< td=""><td>.002 &lt;</td><td>T&gt; 200.</td><td>.021</td><td>.001 <t< td=""></t<></td></t<></td></t<>	.001 <t< td=""><td>.002 &lt;</td><td>T&gt; 200.</td><td>.021</td><td>.001 <t< td=""></t<></td></t<>	.002 <	T> 200.	.021	.001 <t< td=""></t<>
TOTAL NITE	RATES (MG/L	)	DET*N L	IMIT = .020	GUIOELINE =	10.000 (A1)
JAN	.380	.395	.410	.400	.435	.430
FEB	.445	.455	.445	.435	.405	.395
						.465
MAR	.350	.440	.425	.420	.460	.402

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
HAY	.430	•	•	•	.430	.410
JUN	.250	.260	.260	.270	.380	.350
JUL	IUR	IUR	.190	.475	.525	.375
AUG	.225	. 185	.210	.205	.340	.210
SEP	. 165	. 195	.225	.225	.425	.310
OCT	.350	.320	.330	.335	.415	.405
NOV	.370	.385	.420	.405	.420	.420
DEC	.385	.400	.415	.405	.475	.435
ITROGEN 1	TOT KJELD (MG/L	)	DET'N L	MIT = .020	GUIDELINE =	N/A
JAN	.200	.240	.370	.340	.340	.280
FEB	.280	.360	.320	.330	.390	.340
MAR	.260	.350	.370	.360	.340	.320
APR	.320	.320	.360	.390	.390	.340
MAY	.430		•		.420	.380
JUN	.300	.350	.350	.400	.360	.360
JUL	.450	.510	.360	.430	.400	.380
AUG	.290	.370	.590	.390	.280	.400
SEP	.270	.390	.450	.410	.250	.440
OCT	.210	.470	.300	.320	.300	.290
NOV	.210	.270	.280	.340	.320	.280
DEC	.210	.290	.330	.360	.300	.330
H (DMNSLE	( SS )		DET'N L	IHIT = N/A	GUIDELINE =	6.5-8.5(A4)
JAN	8.200	7.980	7.960	7.900	7.950	8.070
FEB	8.330	8.180	8.200	8.190	8.150	8.160
MAR	8.290	8.100	8.090	8.110	8.000	8.020
APR	8.320	8.390	8.410	8.350	8.410	8.420
MAY	8.390				8.200	8.250
JUN	8.280	8.160	8.190	8.180	8.170	8.200
JUL	IUR	IUR	8.270	8.340	8.350	8.370
AUG	8.290	8.060	8.050	8.050	8.090	8.090
SEP	8.250	8.140	8.120	8.160	8.120	8.140
OCT	8.230	8.180	8.170	8.200	8.270	8.230
NOV	8.280	8.160	8.160	8.160	8.100	8.120
DEC	8.420	8.430	8.330	8.430	8.420	8.350
HOSPHORUS	FIL REACT (MG/L	)	DET'N L	MIT = .0005	GUIDELINE =	N/A
JAN	.000 <7	.001 <t< td=""><td></td><td></td><td></td><td></td></t<>				
FEB	.000 <1	.000 <1	•	•	•	•
MAR	BDL BDL	8DL	•	•	•	•
APR	BDL	BOL	•	•	•	•
MAY	BOL		•	•	•	•
JUN	BOL	BOL	•	•	•	•
			•	•	•	•
JUL	.003	.001 <7	•	•	•	•
AUG	.001 <7	.000 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
SEP	BOL	BDL				•

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT ·	BOL	BOL				
NOV	.003	.002 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
DEC	BOL	BOL	:	•	:	
PHOSPHORUS	S TOTAL (MG/L	)	DET'N LI	MIT = .002	GUIDELINE =	.40 (F2)
JAN	.010	.003 <7				
FEB	.015	.005 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
MAR	.013	.006 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
APR	.011	.005 <7	•	•	•	•
HAY	.016		•	•	•	•
JUN	.011	.004 <1	•	•	•	•
JUL	.011	.004 <1	•	•	•	•
AUG	.016	.004 <1 .006 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
SEP	.016	.008 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
OCT	.012		•	•	•	•
NOV	.015	BDL 042	•	•	•	•
		.012	•	•	•	•
DEC	.011	.003 <7			•	
SULPHATE (	(MG/L )		DET'N LI	MIT = .200	GUIDELINE =	500. (A3)
JAN	26.820	28.070	28.170	28.340	28.930	28.020
FEB	25.860	27.060	26.910	26.720	25.660	26.150
MAR	24.490	30.090	29.580	27,670	29.560	28.930
APR	27.540	30,140	28.470	28.130	28.110	28,290
MAY	30.280				30.380	30.800
JUN	26.330	28.680	27.480	27,390	27.960	28.050
JUL	IUR	IUR	26.520	26.670	26,870	26.790
AUG	27.220	30.390	29.270	29,430	28,980	29.120
SEP	26,020	29.040	28.360	28.050	28,600	28,600
OCT	27.760	30.060	28.170	28.270	29.880	29.800
NOV	26.270	28.410	27.780	27.630	28.210	27.590
DEC	27.490	29.470	28.960	28.560	29.400	29.690
TURBIDITY	(FTU )	•••••••	DET'N LI	MIT = .02	GUIDELINE =	1.00 (A1)
JAN	1.080	.600	.540	.330	.340	.380
FEB	1.820	.320	.280	.280	.980	.460
MAR	1.150	.300	.400	.450	.350	.450
APR	1.000	.510	.370	.220 <t< td=""><td>.250 <t< td=""><td></td></t<></td></t<>	.250 <t< td=""><td></td></t<>	
HAY	1.240	.510	.5,0	.220 \1	.660	.790
JUN	1.350	.380	.200 <7	-	.200 <1	
JUL	IUR	IUR	.210 <7		.630	,720
AUG	1.200	.390	.240	.300	.800	.660
SEP	1.940	.610	.550	.450	.420	.520
OCT	2.400	.670	.430	.380	.410	.400
NOV	.560	.270	.430	.380	.410 .240 <t< td=""><td></td></t<>	
DEC	1.250	.270 .230 <t< td=""><td></td><td></td><td>.240 <t< td=""><td></td></t<></td></t<>			.240 <t< td=""><td></td></t<>	
DEC	1.230	.230 <1	.160 <7	.260	.240 <1	. 150 41

TABLE 5

## WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	METALS				••••••	
SILVER (U	IG/L )			DET'N LIMIT = .020	GUIDELINE = 1	50. (A1)
JAN	BDL	.200 <t< td=""><td>.160 <t< td=""><td>.130 <t< td=""><td>.050 <t< td=""><td>.060 &lt;7</td></t<></td></t<></td></t<></td></t<>	.160 <t< td=""><td>.130 <t< td=""><td>.050 <t< td=""><td>.060 &lt;7</td></t<></td></t<></td></t<>	.130 <t< td=""><td>.050 <t< td=""><td>.060 &lt;7</td></t<></td></t<>	.050 <t< td=""><td>.060 &lt;7</td></t<>	.060 <7
FEB	.030 <t< td=""><td>.260 <t< td=""><td>.300 <t< td=""><td>.250 &lt;7</td><td>.280 <t< td=""><td>.320 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.260 <t< td=""><td>.300 <t< td=""><td>.250 &lt;7</td><td>.280 <t< td=""><td>.320 <t< td=""></t<></td></t<></td></t<></td></t<>	.300 <t< td=""><td>.250 &lt;7</td><td>.280 <t< td=""><td>.320 <t< td=""></t<></td></t<></td></t<>	.250 <7	.280 <t< td=""><td>.320 <t< td=""></t<></td></t<>	.320 <t< td=""></t<>
MAR	BOL	BOL	BOL	BOL	BOL	BOL
APR	.040 <t< td=""><td>.080 <t< td=""><td>.040 <t< td=""><td>.060 <t< td=""><td>.060 <t< td=""><td>.030 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.080 <t< td=""><td>.040 <t< td=""><td>.060 <t< td=""><td>.060 <t< td=""><td>.030 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.040 <t< td=""><td>.060 <t< td=""><td>.060 <t< td=""><td>.030 <t< td=""></t<></td></t<></td></t<></td></t<>	.060 <t< td=""><td>.060 <t< td=""><td>.030 <t< td=""></t<></td></t<></td></t<>	.060 <t< td=""><td>.030 <t< td=""></t<></td></t<>	.030 <t< td=""></t<>
MAY	BDL	•	•		BDL	BOL
JUN	BOL	BOL	BOL	BOL	.070 <t< td=""><td>.030 <t< td=""></t<></td></t<>	.030 <t< td=""></t<>
JUL	BOL	.070 <ī	BOL	BOL	.110 <t< td=""><td>.040 <t< td=""></t<></td></t<>	.040 <t< td=""></t<>
AUG	BDL	.130 <t< td=""><td>.050 <t< td=""><td>BOL</td><td>.050 <t< td=""><td>.050 <t< td=""></t<></td></t<></td></t<></td></t<>	.050 <t< td=""><td>BOL</td><td>.050 <t< td=""><td>.050 <t< td=""></t<></td></t<></td></t<>	BOL	.050 <t< td=""><td>.050 <t< td=""></t<></td></t<>	.050 <t< td=""></t<>
SEP	BOL	.050 <t< td=""><td>.040 <t< td=""><td>.030 <t< td=""><td>BOL</td><td>.030 <t< td=""></t<></td></t<></td></t<></td></t<>	.040 <t< td=""><td>.030 <t< td=""><td>BOL</td><td>.030 <t< td=""></t<></td></t<></td></t<>	.030 <t< td=""><td>BOL</td><td>.030 <t< td=""></t<></td></t<>	BOL	.030 <t< td=""></t<>
OCT	BOL	BDL	BOL	BOL	BOL	BOL
NOV	BOL	BDL	BOL	BOL	BOL	BOL
DEC	BOL	BDL	BOL	BOL	BOL	BOL
ALUMINUM	(UG/L )			DET'N LIMIT = .050	GUIDELINE = 1	100.(A4)
JAN	6.496	61.480	56.840	54.520	60.320	47.560
FEB	13.920	76.560	61.480	60.320	55.680	49.880
MAR	18.560	99.760	105.560	107.880	78.880	75,400
APR	8.004	104.400	107.880	100,920	102.080	85.840
MAY	7.800				120.000	120,000
JUN	23.000	310.000	260,000	240,000	200,000	190,000
JUL	15.000	250.000	220.000	210,000	180.000	180.000
AUG	6.600	240.000	210.000	210.000	190.000	200,000
SEP	7.000	200.000	170.000	180.000	220,000	190,000
OCT	28.000	79.000	74.000	77.000	83.000	72.000
NOV	8.900	72.000	69.000	62.000	97.000	64.000
DEC	23.000	62.000	60.000	58.000	60.000	55.000
ARSENIC (U	JG/L )			DET'N LIMIT = 0.050	GUIDELINE = 5	0.0 (A1)
JAN	.550 <t< td=""><td>BOL</td><td><b>B</b>DL</td><td>.070 &lt;ī</td><td>BOL</td><td>ROL</td></t<>	BOL	<b>B</b> DL	.070 <ī	BOL	ROL
FEB	1.100	1.000 <t< td=""><td>1.200</td><td>1.200</td><td>1.300</td><td>1,300</td></t<>	1.200	1.200	1.300	1,300
MAR	.990 <7	1.000 <t< td=""><td>.840 <t< td=""><td>.890 <t< td=""><td>.640 <t< td=""><td>1,100</td></t<></td></t<></td></t<></td></t<>	.840 <t< td=""><td>.890 <t< td=""><td>.640 <t< td=""><td>1,100</td></t<></td></t<></td></t<>	.890 <t< td=""><td>.640 <t< td=""><td>1,100</td></t<></td></t<>	.640 <t< td=""><td>1,100</td></t<>	1,100
APR	1.700	1.400	1.400	1.300	1.700	1,300
	.070 <7				.180 <t< td=""><td>.570 <t< td=""></t<></td></t<>	.570 <t< td=""></t<>
MAY						
MAY JUN	1.400	1.500	1.300	1.300	1.700	1 200
		1.500 1.800	1.300 1.600	1.300 1.700	1.700 1.900	1,200 1,600
JUN	1.400			1.700	1.900	1.600
JUL JUH	1.400 1.700	1.800	1.600		1.900 1.400	1.600 1.200
JUH JUL AUG	1.400 1.700 1.000 <t< td=""><td>1.800 1.300</td><td>1.600 1.300</td><td>1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<></td></t<>	1.800 1.300	1.600 1.300	1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<>	1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<>	1.600 1.200 1.200
JUN JUL AUG SEP	1.400 1.700 1.000 <t .870 <t< td=""><td>1.800 1.300 1.100</td><td>1.600 1.300 1.100</td><td>1.700 1.300 .950 <t .620 <t< td=""><td>1.900 1.400 .980 <t .690 <t< td=""><td>1.600 1.200 1.200 .790 <t< td=""></t<></td></t<></t </td></t<></t </td></t<></t 	1.800 1.300 1.100	1.600 1.300 1.100	1.700 1.300 .950 <t .620 <t< td=""><td>1.900 1.400 .980 <t .690 <t< td=""><td>1.600 1.200 1.200 .790 <t< td=""></t<></td></t<></t </td></t<></t 	1.900 1.400 .980 <t .690 <t< td=""><td>1.600 1.200 1.200 .790 <t< td=""></t<></td></t<></t 	1.600 1.200 1.200 .790 <t< td=""></t<>
JUN JUL AUG SEP OCT	1.400 1.700 1.000 <t .870 <t .820 <t< td=""><td>1.800 1.300 1.100 .460 <t< td=""><td>1.600 1.300 1.100 .530 <t< td=""><td>1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<></td></t<></td></t<></td></t<></t </t 	1.800 1.300 1.100 .460 <t< td=""><td>1.600 1.300 1.100 .530 <t< td=""><td>1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<></td></t<></td></t<>	1.600 1.300 1.100 .530 <t< td=""><td>1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<></td></t<>	1.700 1.300 .950 <t< td=""><td>1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<></td></t<>	1.900 1.400 .980 <t< td=""><td>1.600 1.200 1.200</td></t<>	1.600 1.200 1.200
JUN JUL AUG SEP OCT NOV DEC	1.400 1.700 1.000 <t .870 <t .820 <t .970 <t< td=""><td>1.800 1.300 1.100 .460 <t .600 <t< td=""><td>1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </td></t<></t </td></t<></t </td></t<></t </t </t 	1.800 1.300 1.100 .460 <t .600 <t< td=""><td>1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </td></t<></t </td></t<></t 	1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </td></t<></t 	1.700 1.300 .950 <t .620 <t .600 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t 	1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t 	1.600 1.200 1.200 .790 < T .720 < T .570 < T
JUN JUL AUG SEP OCT NOV DEC	1.400 1.700 1.000 <t .870 <t .820 <t .970 <t< td=""><td>1.800 1.300 1.100 .460 <t .600 <t< td=""><td>1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </t </td></t<></t </td></t<></t </td></t<></t </t </t 	1.800 1.300 1.100 .460 <t .600 <t< td=""><td>1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </t </td></t<></t </td></t<></t 	1.600 1.300 1.100 .530 <t .550 <t< td=""><td>1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </t </td></t<></t 	1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t </td></t<></t </t </t 	1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt; T .720 &lt; T .570 &lt; T</td></t<></t </t </t 	1.600 1.200 1.200 .790 < T .720 < T .570 < T
JUN JUL AUG SEP OCT NOV DEC	1.400 1.700 1.000 <t .870 <t .820 <t .970 <t 1.100</t </t </t </t 	1.800 1.300 1.100 .460 <t .600 <t .360 <t< td=""><td>1.600 1.300 1.100 .530 &lt;7 .550 &lt;7 .480 &lt;7</td><td>1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt;7 .720 &lt;7 .570 &lt;7</td></t<></t </t </t </td></t<></t </t </t </td></t<></t </t 	1.600 1.300 1.100 .530 <7 .550 <7 .480 <7	1.700 1.300 .950 <t .620 <t .600 <t .650 <t< td=""><td>1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt;7 .720 &lt;7 .570 &lt;7</td></t<></t </t </t </td></t<></t </t </t 	1.900 1.400 .980 <t .690 <t .770 <t .580 <t< td=""><td>1.600 1.200 1.200 .790 &lt;7 .720 &lt;7 .570 &lt;7</td></t<></t </t </t 	1.600 1.200 1.200 .790 <7 .720 <7 .570 <7

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MAMILTON WSS 1989

	RAW		TREATED		SITE 1			SITE 2	
					STANDING	FREE	FLOW	STANDING	FREE FLOW
APR	23.000		22.000		22,000		22.000	22.000	22,000
MAY	25.000							25,000	25.000
JUN	24.000		24.000		26,000		24.000	25,000	24.000
JUL	24.000		24.000		27,000		24.000	26.000	27.000
AUG	22.000		22,000		24.000		23.000	23.000	22,000
SEP	22,000		22.000		23.000		23.000	24.000	24.000
OCT	26.000		25,000		26.000		24.000	26.000	25.000
NOV	23.000		23.000		23.000		22.000	25.000	23.000
DEC	23.000		23.000		22.000		25.000	25.000	25.000
BORON (UG	/L )	•••••	• • • • • • • • • • • • • • • • • • • •			DET'N	LIMIT = 0.	200 GUIDELINE	= 5000. (A1)
JAN	62.000		32.000		71.000		46.000	79.000	39.000
FEB	30.000		27.000		33.000		51.000	59.000	54.000
MAR	49.000		130.000		85.000		140.000	190.000	43.000
APR	70.000		30.000		35.000		32.000	71,000	36.000
MAY	29,000							31.000	40.000
JUN	34.000		28.000		34.000		35.000	41,000	32.000
JUL	48.000		50.000		51.000		36.000	47.000	37.000
AUG	39.000		51.000		52,000		52.000	55.000	39.000
SEP	29.000		43.000		49.000		38.000	34.000	46.000
OCT	28.000		28.000		29,000		27,000	26.000	28.000
NOV	25.000		26.000		25.000		25.000	28,000	27.000
DEC	26.000		29.000		27.000		28.000	29.000	31.000
BERYLLIUM	(UG/L	)				DET'N	LIMIT = 0.	010 GUIDELINE	= N/A
JAN	BOL		BOL		.020 <	T	BOL	.050	<t 80l<="" td=""></t>
FEB	BOL		BOL		BOL		BOL	.020	<t bol<="" td=""></t>
MAR	.140	<7	.300	<t< td=""><td>.230 &lt;</td><td>T</td><td>.310 <t< td=""><td>.230</td><td><t .200<="" td=""></t></td></t<></td></t<>	.230 <	T	.310 <t< td=""><td>.230</td><td><t .200<="" td=""></t></td></t<>	.230	<t .200<="" td=""></t>
APR	.050	<t< td=""><td>BOL</td><td></td><td>BOL</td><td></td><td>.040 <t< td=""><td>.300</td><td><t 90l<="" td=""></t></td></t<></td></t<>	BOL		BOL		.040 <t< td=""><td>.300</td><td><t 90l<="" td=""></t></td></t<>	.300	<t 90l<="" td=""></t>
MAY	SOL							.080	<t .140="" td="" ·<=""></t>
JUN	BOL		BOL		BOL		BOL	.040	<t bol<="" td=""></t>
JUL	BOL		BOL		9DL		BOL	.080	<t bol<="" td=""></t>
AUG	.060	<t< td=""><td>. 100</td><td>&lt;1</td><td>.170 &lt;</td><td>T</td><td>.100 <t< td=""><td>.100</td><td><t bol<="" td=""></t></td></t<></td></t<>	. 100	<1	.170 <	T	.100 <t< td=""><td>.100</td><td><t bol<="" td=""></t></td></t<>	.100	<t bol<="" td=""></t>
SEP	BOL		BOL		BOL		BOL	BOL	BOL
OCT	.030	<7	BOL		.020 <	T	.020 <t< td=""><td>BOL</td><td>BOL</td></t<>	BOL	BOL
NOV	BOL		BOL		BOL		BOL	BOL	BOL
DEC	BOL		BOL		BOL		BOL	80L	BOL
ADHIUM (L	JG/L )			•••••		DET'N	LIMIT = 0.	050 GUIDELINE	= 5.000 (A1)
JAN	BOL		BOL		BOL		BOL	BOL	BOL
FEB	.060	<1	BOL		.120 <	Т	BOL	.120	<t .100="" td="" ·<=""></t>
MAR	BOL		BOL		BOL		BOL	1.800	BOL
APR	BOL		BOL		BOL		.100 <t< td=""><td>. 120</td><td><t .090<="" td=""></t></td></t<>	. 120	<t .090<="" td=""></t>
MAY	.120	<t< td=""><td></td><td></td><td></td><td></td><td></td><td>BOL</td><td>.120</td></t<>						BOL	.120
JUN	BOL		BOL		BOL		BOL	.090	<t .070<="" td=""></t>
JUL	.110	<t< td=""><td>. 120</td><td><t< td=""><td>.210 &lt;</td><td>•</td><td></td><td>.210</td><td></td></t<></td></t<>	. 120	<t< td=""><td>.210 &lt;</td><td>•</td><td></td><td>.210</td><td></td></t<>	.210 <	•		.210	
JUL					.210 <	. 1	.190 <t< td=""><td>.ZiU</td><td>.110</td></t<>	.ZiU	.110

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED		SITE 1		SITE 2	
			ST	AND ING	FREE FLOW	STANDING	FREE FLOW
					-01	BOL	BOL
SEP	BOL	BOL	_	BOL	BOL BOL	.060 <	===
OCT	BOL	.060	<1	.060 <t< td=""><td></td><td>.060 &lt;</td><td>BDL BDL</td></t<>		.060 <	BDL BDL
NOV	BDL	BDL		BOL	BOL	BDL BDL	BOL
DEC	BOL	BOL		BOL	<b>B</b> UL		
COBALT (U	G/L )				DET'N LIMIT = 0.0	020 GUIDELINE =	N/A
JAN	BDL	BOL		BOL	.030 <7	.030 <	
FEB	.100 <t< td=""><td>.090</td><td><t< td=""><td>.050 &lt;7</td><td>.080 <t< td=""><td>.100 &lt;</td><td></td></t<></td></t<></td></t<>	.090	<t< td=""><td>.050 &lt;7</td><td>.080 <t< td=""><td>.100 &lt;</td><td></td></t<></td></t<>	.050 <7	.080 <t< td=""><td>.100 &lt;</td><td></td></t<>	.100 <	
MAR	BOL	.110	<t< td=""><td>.030 <t< td=""><td>BOL</td><td>.070 &lt;</td><td></td></t<></td></t<>	.030 <t< td=""><td>BOL</td><td>.070 &lt;</td><td></td></t<>	BOL	.070 <	
APR	.130 <t< td=""><td>.130</td><td>&lt;1</td><td>.110 <t< td=""><td>.070 &lt;1</td><td>.180 &lt;</td><td>r .090 &lt;1</td></t<></td></t<>	.130	<1	.110 <t< td=""><td>.070 &lt;1</td><td>.180 &lt;</td><td>r .090 &lt;1</td></t<>	.070 <1	.180 <	r .090 <1
MAY	.370 <t< td=""><td>•</td><td></td><td></td><td>•</td><td>.460 &lt;</td><td>r .400 &lt;1</td></t<>	•			•	.460 <	r .400 <1
JUN	.780 <7	.840	<1	.650 <t< td=""><td>.670 <t< td=""><td>.650 &lt;</td><td>r .770 &lt;</td></t<></td></t<>	.670 <t< td=""><td>.650 &lt;</td><td>r .770 &lt;</td></t<>	.650 <	r .770 <
JUL	.050 <t< td=""><td>.070</td><td>&lt;1</td><td>BOL</td><td>.030 &lt;7</td><td>.120 &lt;</td><td>r .200 &lt;</td></t<>	.070	<1	BOL	.030 <7	.120 <	r .200 <
AUG	.060 <t< td=""><td>.110</td><td>&lt;1</td><td>BOL</td><td>BOL</td><td>BOL</td><td>BOL</td></t<>	.110	<1	BOL	BOL	BOL	BOL
SEP	.030 <t< td=""><td>BOL</td><td></td><td>BOL</td><td>BOL</td><td>BOL</td><td>BOL</td></t<>	BOL		BOL	BOL	BOL	BOL
OCT	.230 <7	.170	<t< td=""><td>.130 <t< td=""><td>.200 <t< td=""><td>.120 &lt;</td><td>:T .180 &lt;</td></t<></td></t<></td></t<>	.130 <t< td=""><td>.200 <t< td=""><td>.120 &lt;</td><td>:T .180 &lt;</td></t<></td></t<>	.200 <t< td=""><td>.120 &lt;</td><td>:T .180 &lt;</td></t<>	.120 <	:T .180 <
NOV	.190 <7	.080	<1	.100 <t< td=""><td>.110 <t< td=""><td>.110 &lt;</td><td>.100 &lt;</td></t<></td></t<>	.110 <t< td=""><td>.110 &lt;</td><td>.100 &lt;</td></t<>	.110 <	.100 <
DEC	.040 <t< td=""><td>.030</td><td>&lt;₹</td><td>.090 &lt;1</td><td>.110 <t< td=""><td>.110 &lt;</td><td>r .130 &lt;</td></t<></td></t<>	.030	<₹	.090 <1	.110 <t< td=""><td>.110 &lt;</td><td>r .130 &lt;</td></t<>	.110 <	r .130 <
CHRONIUN	(UG/L )				DET'N LIMIT = 0.	100 GUIDELINE :	50. (A1)
MAL	5.500	1,900		5.100	2.600	5.700	1.800
FEB	590.000	8.800		1.700	4.700	6,000	4.900
MAR	120.000	70.000		2.000	3.700	5,300	.730 <
APR	17,000	9.400		1.600	1.200	6.600	1.800
HAY	.870 <t< td=""><td>7.400</td><td></td><td>1.000</td><td>1.200</td><td>1,500</td><td>5.200</td></t<>	7.400		1.000	1.200	1,500	5.200
	.010 1	•		•	•		
	3 700	1 100		3 300	7 000		2 000
JUN	3.700	1.100		3.300	3.900	5.600	2.000
JUL	5.700	5.600		6.100	2.700	5.600 4.900	2.400
JUL	5.700 2.300	5.600 4.500		6.100 4.800	2.700 4.400	5.600 4.900 5.000	2.400 3.000
JUL AUG SEP	5.700 2.300 1.400	5.600 4.500 4.600		6.100 4.800 5.400	2.700 4.400 3.400	5.600 4.900 5.000 1.800	2.400 3.000 5.000
JUL AUG SEP OCT	5.700 2.300 1.400 .460 <t< td=""><td>5.600 4.500 4.600 .530</td><td></td><td>6.100 4.800 5.400 .510 <t< td=""><td>2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<></td></t<></td></t<>	5.600 4.500 4.600 .530		6.100 4.800 5.400 .510 <t< td=""><td>2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<></td></t<>	2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<>	5.600 4.900 5.000 1.800	2.400 3.000 5.000 5.70 <
JUL AUG SEP OCT NOV	5.700 2.300 1.400 .460 <t .230 <t< td=""><td>5.600 4.500 4.600 .530 .330</td><td>&lt;⊺</td><td>6.100 4.800 5.400 .510 <t .290 <t< td=""><td>2.700 4.400 3.400 .420 <t .320 <t< td=""><td>5.600 4.900 5.000 1.800 .590</td><td>2.400 3.000 5.000 ct .570 &lt;</td></t<></t </td></t<></t </td></t<></t 	5.600 4.500 4.600 .530 .330	<⊺	6.100 4.800 5.400 .510 <t .290 <t< td=""><td>2.700 4.400 3.400 .420 <t .320 <t< td=""><td>5.600 4.900 5.000 1.800 .590</td><td>2.400 3.000 5.000 ct .570 &lt;</td></t<></t </td></t<></t 	2.700 4.400 3.400 .420 <t .320 <t< td=""><td>5.600 4.900 5.000 1.800 .590</td><td>2.400 3.000 5.000 ct .570 &lt;</td></t<></t 	5.600 4.900 5.000 1.800 .590	2.400 3.000 5.000 ct .570 <
JUL AUG SEP OCT	5.700 2.300 1.400 .460 <t< td=""><td>5.600 4.500 4.600 .530</td><td>&lt;⊺</td><td>6.100 4.800 5.400 .510 <t< td=""><td>2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<></td></t<></td></t<>	5.600 4.500 4.600 .530	<⊺	6.100 4.800 5.400 .510 <t< td=""><td>2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<></td></t<>	2.700 4.400 3.400 .420 <t< td=""><td>5.600 4.900 5.000 1.800</td><td>2.400 3.000 5.000 5.70 &lt;</td></t<>	5.600 4.900 5.000 1.800	2.400 3.000 5.000 5.70 <
JUL AUG SEP OCT NOV	5.700 2.300 1.400 .460 <t .230 <t BOL</t </t 	5.600 4.500 4.600 .530 .330	<⊺	6.100 4.800 5.400 .510 <t .290 <t< td=""><td>2.700 4.400 3.400 .420 <t .320 <t< td=""><td>5.600 4.900 5.000 1.800 .590 .200</td><td>2,400 3,000 5,000 ct .570 &lt; ct .280 &lt; .750 &lt;</td></t<></t </td></t<></t 	2.700 4.400 3.400 .420 <t .320 <t< td=""><td>5.600 4.900 5.000 1.800 .590 .200</td><td>2,400 3,000 5,000 ct .570 &lt; ct .280 &lt; .750 &lt;</td></t<></t 	5.600 4.900 5.000 1.800 .590 .200	2,400 3,000 5,000 ct .570 < ct .280 < .750 <
JUL AUG SEP OCT NOV DEC COPPER (U	5.700 2.300 1.400 .460 <t .230 <t BDL</t </t 	5.600 4.500 4.600 .530 .330 .940	ব ব	6.100 4.800 5.400 .510 <7 .290 <7 BDL	2.700 4.400 3.400 .420 <t .320 <t BOL DET'N LIMIT = .10</t </t 	5.600 4.900 5.000 1.800 .590 - .200 - BDL	2,400 3,000 5,000 5,000 4T .570 < 4T .280 < .750 < 1000 (A3) 27,000
JUL AUG SEP OCT NOV DEC	5.700 2.300 1.400 .460 <1 .230 <1 BDL	5.600 4.500 4.600 .530 .330 .940	ব ব	6.100 4.800 5.400 .510 <7 .290 <7 BDL	2.700 4.400 3.400 .420 <t .320 <t BOL</t </t 	5.600 4.900 5.000 1.800 .200	2,400 3,000 5,000 5,000 cT .570 < cT .280 < .750 <
JUL AUG SEP OCT NOV DEC COPPER (U	5.700 2.300 1.400 .460 <t .230 <t BDL</t </t 	5.600 4.500 4.600 .530 .330 .940	ব ব	6.100 4.800 5.400 .510 <7 .290 <7 BDL	2.700 4.400 3.400 .420 <t .320 <t BOL DET'N LIMIT = .10</t </t 	5.600 4.900 5.000 1.800 .590 - .200 - BDL	2,400 3,000 5,000 5,000 4T .570 < 4T .280 < .750 < 1000 (A3) 27,000
JUL AUG SEP OCT NOV DEC COPPER (U	5.700 2.300 1.400 .460 <1 .230 <1 BbL	5.600 4.500 4.600 .530 .330 .940	ব ব	6.100 4.800 5.400 .510 <t .290 <t BDL 3.100 4.000</t </t 	2.700 4.400 3.400 .420 <t .320 <t .BDL DET'N LIMIT = .10 2.100 2.700</t </t 	5.600 4.900 5.000 1.800 .590 .200 BDL 00 GUIDELINE = 230.000 74.000	2.400 3.000 5.000 5.000 47 .570 < 47 .280 < .750 < = 1000 (A3) 27.000 98.000
JUL AUG SEP OCT NOV DEC COPPER (U JAN FEB MAR	5.700 2.300 1.400 .460 <t .230 <t BDL 1.900 2.000 1.700</t </t 	5.600 4.500 4.600 .530 .940 1.000 1.200	ব ব	6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400</t </t 	2.700 4.400 3.400 .420 <t .320="" .bdl="" 2.100="" 2.700="" 2.800<="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 .200 BDL 230.000 74.000 190.000</td><td>2.400 3.000 5.000 5.000 67 .570 &lt; 750 &lt; * 1000 (A3) 27.000 98.000 18.000</td></t>	5.600 4.900 5.000 1.800 .590 .200 BDL 230.000 74.000 190.000	2.400 3.000 5.000 5.000 67 .570 < 750 < * 1000 (A3) 27.000 98.000 18.000
JUL AUG SEP OCT NOV DEC COPPER (U JAN FEB MAR APR	5.700 2.300 1.400 .460 <t .230 <t BDL 1.900 2.000 1.700 1.900</t </t 	5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200	ব ব	6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400</t </t 	2.700 4.400 3.400 .420 <t .320="" .bdl="" 2.100="" 2.700="" 2.800<="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 .200 80L 230.000 74.000 190.000</td><td>2,400 3,000 5,000 4T .570 &lt; 4T .280 &lt; .750 &lt; * 1000 (A3) 27,000 98,000 18,000 13,000</td></t>	5.600 4.900 5.000 1.800 .590 .200 80L 230.000 74.000 190.000	2,400 3,000 5,000 4T .570 < 4T .280 < .750 < * 1000 (A3) 27,000 98,000 18,000 13,000
JUL AUG SEP OCT NOV DEC COPPER (U JAN FEB MAR APR MAY	5.700 2.300 1.400 .460 <t .230 <t BDL 1.900 2.000 1.700 1.900 2.200</t </t 	5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200	ব ব	6.100 4.800 5.400 .510 <7 .290 <7 BDL 3.100 4.000 4.400 26.000	2.700 4.400 3.400 .420 <t .320 <t .BOL DET'N LIMIT = .10 2.100 2.700 2.800 3.600</t </t 	5.600 4.900 5.000 1.800 .590 .200 BDL 230.000 74.000 190.000 110.000	2,400 3,000 5,000 5,000 4T .570 < 4T .280 < .750 < 27,000 98,000 18,000 18,000 18,000
JUL AUG SEP OCT NOV DEC DEC COPPER (U JAN FEB MAR APR MAY JUN	5.700 2.300 1.400 .460 < 1 .230 < T BDL  1.900 2.000 1.700 1.900 2.200 2.100	5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200 1.500 1.100	<ī <ī <ī	6.100 4.800 5.400 .510 <t .290 <t BDL 3.100 4.000 4.400 26.000 21.000</t </t 	2.700 4.400 3.400 .420 <t .320 <t .BOL DET'N LIMIT = .10 2.100 2.700 2.800 3.600</t </t 	5.600 4.900 5.000 1.800 .590 - .200 - BDL 230.000 74.000 190.000 110.000 60.000	2,400 3,000 5,000 5,000 4T .570 < 4T .280 < .750 < 27,000 98,000 18,000 13,000 18,000 17,000
JUL AUG SEP OCT MOV DEC  COPPER (U  JAN FEB MAR APR MAY JUN JUL AUG	5.700 2.300 1.400 .460 <t .230="" 1.700="" 1.800="" 1.900="" 2.000="" 2.100="" 2.200="" 2.300<="" <t="" bdl="" td=""><td>5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200 1.500 1.100 .920</td><td>ব ব ব</td><td>6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400 26.000 .24.000 21.000 17.000</t </t </td><td>2.700 4.400 3.400 .420 <t .="" .320="" .bdl="" 2.100="" 2.700="" 2.800="" 2.900="" 2.900<="" 3.200="" 3.600="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000</td><td>2.400 3.000 5.000 5.000 47 .570 &lt; 47 .280 &lt; 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000</td></t></td></t>	5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200 1.500 1.100 .920	ব ব ব	6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400 26.000 .24.000 21.000 17.000</t </t 	2.700 4.400 3.400 .420 <t .="" .320="" .bdl="" 2.100="" 2.700="" 2.800="" 2.900="" 2.900<="" 3.200="" 3.600="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000</td><td>2.400 3.000 5.000 5.000 47 .570 &lt; 47 .280 &lt; 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000</td></t>	5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000	2.400 3.000 5.000 5.000 47 .570 < 47 .280 < 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000
JUL AUG SEP OCT MOV DEC  COPPER (U  JAN FEB HAR APR HAY JUN JUL AUG SEP	5.700 2.300 1.400 .460 <t .230 <t BDL 1.900 2.000 1.700 1.900 2.200 2.100 1.800 2.300 1.500</t </t 	5.600 4.500 4.600 .530 .940 1.000 1.200 1.200 1.500 1.100 .920	ব ব ব	6.100 4.800 5.400 .510 <t .590 <t BDL 3.100 4.000 4.400 26.000  24.000 21.000 17.000 12.000</t </t 	2.700 4.400 3.400 .420 <t .="" .320="" .bdl="" 2.100="" 2.700="" 2.800="" 2.900="" 2.900<="" 3.200="" 3.600="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 110.000 47.000 47.000 47.000</td><td>2.400 3.000 5.000 5.000 6T .570 &lt; 6T .280 &lt; .750 &lt; = 1000 (A3) 27.000 98.000 18.000 13.000 16.000 16.000 11.000</td></t>	5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 110.000 47.000 47.000 47.000	2.400 3.000 5.000 5.000 6T .570 < 6T .280 < .750 < = 1000 (A3) 27.000 98.000 18.000 13.000 16.000 16.000 11.000
JUL AUG SEP OCT MOV DEC  COPPER (U  JAN FEB MAR APR MAY JUN JUL AUG	5.700 2.300 1.400 .460 <t .230="" 1.700="" 1.800="" 1.900="" 2.000="" 2.100="" 2.200="" 2.300<="" <t="" bdl="" td=""><td>5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200 1.500 1.100 .920</td><td>ব ব ব ব</td><td>6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400 26.000 .24.000 21.000 17.000</t </t </td><td>2.700 4.400 3.400 .420 <t .="" .320="" .bdl="" 2.100="" 2.700="" 2.800="" 2.900="" 2.900<="" 3.200="" 3.600="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000</td><td>2.400 3.000 5.000 5.000 47 .570 &lt; 47 .280 &lt; 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000</td></t></td></t>	5.600 4.500 4.600 .530 .330 .940 1.000 1.200 1.200 1.500 1.100 .920	ব ব ব ব	6.100 4.800 5.400 .510 <t .290 <t BOL 3.100 4.000 4.400 26.000 .24.000 21.000 17.000</t </t 	2.700 4.400 3.400 .420 <t .="" .320="" .bdl="" 2.100="" 2.700="" 2.800="" 2.900="" 2.900<="" 3.200="" 3.600="" <t="" det'n="" limit=".10" td=""><td>5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000</td><td>2.400 3.000 5.000 5.000 47 .570 &lt; 47 .280 &lt; 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000</td></t>	5.600 4.900 5.000 1.800 .590 4 .200 8 BDL 230.000 74.000 190.000 160.000 60.000 47.000 40.000	2.400 3.000 5.000 5.000 47 .570 < 47 .280 < 48 1000 (A3) 27.000 98.000 18.000 13.000 18.000 17.000 16.000 8.000

TABLE 5

# MATER TREATMENT PLANT -DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
IRON (UG/L	)		• • • • • • • • • • • • • • • • • • • •	DET'N LIMIT = 4	.000 GUIDELINE =	300. (A3)
JAN	33.000 <t< td=""><td>13.000 <t< td=""><td>70.000</td><td>67.000</td><td>23.000 &lt;7</td><td><b>25.000</b> &lt;7</td></t<></td></t<>	13.000 <t< td=""><td>70.000</td><td>67.000</td><td>23.000 &lt;7</td><td><b>25.000</b> &lt;7</td></t<>	70.000	67.000	23.000 <7	<b>25.000</b> <7
FES	51.000	7.400 <t< td=""><td>35.000 &lt;7</td><td>30.000 <t< td=""><td>7.900 <t< td=""><td>6.300 <t< td=""></t<></td></t<></td></t<></td></t<>	35.000 <7	30.000 <t< td=""><td>7.900 <t< td=""><td>6.300 <t< td=""></t<></td></t<></td></t<>	7.900 <t< td=""><td>6.300 <t< td=""></t<></td></t<>	6.300 <t< td=""></t<>
MAR	24.000 <t< td=""><td>17.000 <t< td=""><td>51.000</td><td>51.000</td><td>5.300 <t< td=""><td>12.000 <t< td=""></t<></td></t<></td></t<></td></t<>	17.000 <t< td=""><td>51.000</td><td>51.000</td><td>5.300 <t< td=""><td>12.000 <t< td=""></t<></td></t<></td></t<>	51.000	51.000	5.300 <t< td=""><td>12.000 <t< td=""></t<></td></t<>	12.000 <t< td=""></t<>
APR	BOL	BOL	11.000 <t< td=""><td>60.000</td><td>BOL</td><td>BOL</td></t<>	60.000	BOL	BOL
MAY	21.000 <t< td=""><td></td><td></td><td></td><td>15.000 <t< td=""><td>14.000 <t< td=""></t<></td></t<></td></t<>				15.000 <t< td=""><td>14.000 <t< td=""></t<></td></t<>	14.000 <t< td=""></t<>
JUN	30.000 <t< td=""><td>10.000 <t< td=""><td>24.000 <t< td=""><td>41.000 <t< td=""><td>5.900 <t< td=""><td>14.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	10.000 <t< td=""><td>24.000 <t< td=""><td>41.000 <t< td=""><td>5.900 <t< td=""><td>14.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	24.000 <t< td=""><td>41.000 <t< td=""><td>5.900 <t< td=""><td>14.000 <t< td=""></t<></td></t<></td></t<></td></t<>	41.000 <t< td=""><td>5.900 <t< td=""><td>14.000 <t< td=""></t<></td></t<></td></t<>	5.900 <t< td=""><td>14.000 <t< td=""></t<></td></t<>	14.000 <t< td=""></t<>
JUL	20.000 <t< td=""><td>BDL</td><td>14,000 <t< td=""><td>24.000 <t< td=""><td>7.800 <t< td=""><td>11.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	BDL	14,000 <t< td=""><td>24.000 <t< td=""><td>7.800 <t< td=""><td>11.000 <t< td=""></t<></td></t<></td></t<></td></t<>	24.000 <t< td=""><td>7.800 <t< td=""><td>11.000 <t< td=""></t<></td></t<></td></t<>	7.800 <t< td=""><td>11.000 <t< td=""></t<></td></t<>	11.000 <t< td=""></t<>
AUG	16.000 <t< td=""><td>BOL</td><td>17.000 <t< td=""><td>54.000</td><td>BOL</td><td>BOL</td></t<></td></t<>	BOL	17.000 <t< td=""><td>54.000</td><td>BOL</td><td>BOL</td></t<>	54.000	BOL	BOL
SEP	14.000 <t< td=""><td>5.800 <t< td=""><td>20.000 <t< td=""><td>66.000</td><td>BOL</td><td>BOL</td></t<></td></t<></td></t<>	5.800 <t< td=""><td>20.000 <t< td=""><td>66.000</td><td>BOL</td><td>BOL</td></t<></td></t<>	20.000 <t< td=""><td>66.000</td><td>BOL</td><td>BOL</td></t<>	66.000	BOL	BOL
OCT	50.000 <t< td=""><td>5.900 <t< td=""><td>30.000 <t< td=""><td>61.000</td><td>9.400 <t< td=""><td>15.000 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	5.900 <t< td=""><td>30.000 <t< td=""><td>61.000</td><td>9.400 <t< td=""><td>15.000 <t< td=""></t<></td></t<></td></t<></td></t<>	30.000 <t< td=""><td>61.000</td><td>9.400 <t< td=""><td>15.000 <t< td=""></t<></td></t<></td></t<>	61.000	9.400 <t< td=""><td>15.000 <t< td=""></t<></td></t<>	15.000 <t< td=""></t<>
NOV	19.000 <t< td=""><td>BOL</td><td>24.000 <t< td=""><td>29.000 <t< td=""><td>BOL</td><td>6.700 <t< td=""></t<></td></t<></td></t<></td></t<>	BOL	24.000 <t< td=""><td>29.000 <t< td=""><td>BOL</td><td>6.700 <t< td=""></t<></td></t<></td></t<>	29.000 <t< td=""><td>BOL</td><td>6.700 <t< td=""></t<></td></t<>	BOL	6.700 <t< td=""></t<>
DEC	63.000	BOL	24.000 <t< td=""><td>42.000 <t< td=""><td>BOL</td><td>BOL</td></t<></td></t<>	42.000 <t< td=""><td>BOL</td><td>BOL</td></t<>	BOL	BOL
MERCURY (UG	/L )		•	DET'N LIMIT = 0.	.010 GUIDELINE =	1.000 (A1)
JAN	.040 <t< td=""><td>.040 <t< td=""><td></td><td>.050 <t< td=""><td></td><td>.100</td></t<></td></t<></td></t<>	.040 <t< td=""><td></td><td>.050 <t< td=""><td></td><td>.100</td></t<></td></t<>		.050 <t< td=""><td></td><td>.100</td></t<>		.100
FEB	.050 <t< td=""><td>.090</td><td></td><td>.100</td><td></td><td>.100</td></t<>	.090		.100		.100
HAR	.090	.100		.050 <7	•	.060
APR	.090	.060		.070		.050 <t< td=""></t<>
MAY	BOL					BOL
JUN	BOL	BOL		.090		BOL
JUL	BOL	BOL		.120		BOL
AUG	BOL	BOL		.110		BOL
SEP	BOL	BOL		.130		BOL
OCT	BOL	BDL		BOL		BOL
NOV	BOL	BDL		BOL		BOL
DEC	BOL	.020 <t< td=""><td>•</td><td>BOL</td><td>, .</td><td>.020 <t< td=""></t<></td></t<>	•	BOL	, .	.020 <t< td=""></t<>
MANGANESE (I	JG/L )			DET'N LIMIT = .	050 GUIDELINE =	50.0 (A3)
JAN	1.400	BOL	1.300	1.300	.280 <t< td=""><td>BOL</td></t<>	BOL
FEB	4.900	.750	1.300	1.300	.550	.410 <t< td=""></t<>
MAR	3.300	.720	2.200	2.400	1.300	.790
APR	5.300	.950	2.000	2.700	1.100	.690
MAY	11.000	•			2.000	1.800
JUN	8.300	1.600	2.900	4.000	2.500	2.200
JUL	4.300	.690	2.700	1.700	1.800	1.700
AUG	5.500	.630	1.800	3.700	1.200	.740
SEP	4.300	.750	2.800	3.900	1.100	1.000
OCT	6.100	.220 <t< td=""><td>1,100</td><td>2.600</td><td>.670</td><td>.660</td></t<>	1,100	2.600	.670	.660
NOV	3.400	.410 <t< td=""><td>1.400</td><td>1.500</td><td>1,200</td><td>.590</td></t<>	1.400	1.500	1,200	.590
DEC	5.100	.480 <t< td=""><td>1.500</td><td>2.000</td><td>1.300</td><td>.540</td></t<>	1.500	2.000	1.300	.540
MOLYBDENUM (	(UG/L )		••••••	DET'N LIMIT = 0	.020 GUIDELINE =	N/A
JAN	1.100	1.200	1.100	1.100	1.200	1.200
FEB	1.500	1.400	1,600	1.600	1.500	1.400
MAR	1.500	1.600	1.500	1.700	1.700	1,700
APR	1.300	1.400	1.400	1.300	1.300	1,400

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAU	1.800				1.700	1.700
MAY JUN	1.700	1,600	1.700	1.500	1,700	1.700
JUL	1.400	1.500	1.600	1.500	1,500	1,600
AUG	1.300	1.300	1,400	1,400	1.400	1,500
SEP	1,200	1.300	1,200	1,400	1,300	1.500
OCT	1.300	1.300	1.200	1.200	1,200	1.200
HOV	1.200	1.200	1,100	1.200	1.300	1.200
DEC	1.200	1.200	1.400	1,300	1.400	1.400
NICKEL	(UG/L )			DET'N LIMIT = 0.	.100 GUIDELINE =	50. (F3)
JAN	1.600 <7	.740 <t< td=""><td>,800 &lt;</td><td>r .630 <t< td=""><td>1.300 &lt;7</td><td>.810 <t< td=""></t<></td></t<></td></t<>	,800 <	r .630 <t< td=""><td>1.300 &lt;7</td><td>.810 <t< td=""></t<></td></t<>	1.300 <7	.810 <t< td=""></t<>
FEB	2.400	1.800 <t< td=""><td>1.700 &lt;</td><td>r 1.300 <t< td=""><td>1.200 <t< td=""><td></td></t<></td></t<></td></t<>	1.700 <	r 1.300 <t< td=""><td>1.200 <t< td=""><td></td></t<></td></t<>	1.200 <t< td=""><td></td></t<>	
MAR	.510 <t< td=""><td>.170 <t< td=""><td>.330 &lt;</td><td>T&gt; .110 <t< td=""><td>.380 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	.170 <t< td=""><td>.330 &lt;</td><td>T&gt; .110 <t< td=""><td>.380 <t< td=""><td></td></t<></td></t<></td></t<>	.330 <	T> .110 <t< td=""><td>.380 <t< td=""><td></td></t<></td></t<>	.380 <t< td=""><td></td></t<>	
APR	1.300 <t< td=""><td>.960 <t< td=""><td>.900 &lt;</td><td>T&gt; 0<b>96.</b></td><td>1.100 &lt;7</td><td></td></t<></td></t<>	.960 <t< td=""><td>.900 &lt;</td><td>T&gt; 0<b>96.</b></td><td>1.100 &lt;7</td><td></td></t<>	.900 <	T> 0 <b>96.</b>	1.100 <7	
MAY	1.300 <7	•			1.000 <7	1.500 <t< td=""></t<>
JUN	10.000	10.000	12.000	9.900	10.000	10.000
JUL	12.000	11.000	11.000	11.000	13.000	13.000
AUG	.780 <t< td=""><td>.270 &lt;ī</td><td>BDL</td><td>.130 <t< td=""><td>BOL</td><td>BOL</td></t<></td></t<>	.270 <ī	BDL	.130 <t< td=""><td>BOL</td><td>BOL</td></t<>	BOL	BOL
SEP	.670 <7	.430 <7	.200 <	T> .530 <t< td=""><td>.510 &lt;1</td><td></td></t<>	.510 <1	
OCT	.990 <t< td=""><td>.790 &lt;ī</td><td>.930 &lt;</td><td></td><td>1.200 &lt;</td><td></td></t<>	.790 <ī	.930 <		1.200 <	
NOV	1.000 <t< td=""><td>.640 <t< td=""><td>.500 &lt;</td><td>T .410 <t< td=""><td>.580 &lt;1</td><td></td></t<></td></t<></td></t<>	.640 <t< td=""><td>.500 &lt;</td><td>T .410 <t< td=""><td>.580 &lt;1</td><td></td></t<></td></t<>	.500 <	T .410 <t< td=""><td>.580 &lt;1</td><td></td></t<>	.580 <1	
DEC	.680 <t< td=""><td>.560 &lt;7</td><td>BOL</td><td>.820 &lt;7</td><td>1.700 &lt;1</td><td>1.700 <t< td=""></t<></td></t<>	.560 <7	BOL	.820 <7	1.700 <1	1.700 <t< td=""></t<>
LEAD (U	G/L )			DET'N LIMIT = 0.	.050 GUIDELINE =	50. (A1)
JAN	.470	.090 <t< td=""><td>.720</td><td>.690</td><td>3.800</td><td>.360</td></t<>	.720	.690	3.800	.360
FEB	.540	.300	.810	.800	2.500	2.000
MAR	.620	.370	1.000	1.000	11.000	5.000
APR	.370	.1 <b>3</b> 0 <t< td=""><td>1.500</td><td>.890</td><td>3.700</td><td>.440</td></t<>	1.500	.890	3.700	.440
MAY	.640	•		•	5.900	.640
JUN	.330	.160 <t< td=""><td>3.800</td><td>2.200</td><td>8.500</td><td>1.100</td></t<>	3.800	2.200	8.500	1.100
JUL	.560	BOL	2.800	2.500	3.500	1.100
AUG	.520	.330	2.800	3.000	3.100	.630
SEP	.390	.130 <7	3.600	4.000	4.000	1.100
OCT	.440	.040 <t< td=""><td>3.000</td><td>2.800</td><td>3.800</td><td>1.200</td></t<>	3.000	2.800	3.800	1.200
MOV	.100 <t< td=""><td>BOL</td><td>2.200</td><td>1.600</td><td>3.700</td><td>.710</td></t<>	BOL	2.200	1.600	3.700	.710
DEC	.600	.200 <7	1.600	1.600	2.000	.470 <⊺
ANTIMON	Y (UG/L )			DET'N LIMIT = .	050 GUIDELINE =	146. (04)
JAN	.490	.500	.520	.500	.570	.520
FEB	.780	.790	.700	.920	.960	.830
MAR	.750	1,000	.810	.820	.750	.780
APR	.700	.690	.670	.690	.880	.750
MAY	.800		•	•	1.200	.600
JUN	.960	.860	.950	.830	.950	.910
JUL	.560	.730	.630	.800	.860	1.000
AUG	.720	.840	.740	.690	.750	.690
SEP	.510	.460	.360	.620	.760	.700

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MAMILTON WSS 1989

THALLIUM (UG/L )

DISTRIBUTION SYSTEM

DET'N LIMIT = .010 GUIDELINE = 13. (D4)

STANDING		RAW	TREATED	SITE 1		SITE 2	
NOV				STANDING	FREE FLOW	STANDING	FREE FLOW
NOV	œ	420	470	A00	550	.620	.550
DEC   .480 <  T   .520							
JAM	-						
FEB	SELENIUM	(UG/L )			DET'N LIMIT = 0.	200 GUIDELINE =	10. (A1)
FEB	JAN	1.400 <t< td=""><td>1.900 <t< td=""><td>2.800 <t< td=""><td>2,100 <t< td=""><td>2.300 <t< td=""><td>2.500 &lt;7</td></t<></td></t<></td></t<></td></t<></td></t<>	1.900 <t< td=""><td>2.800 <t< td=""><td>2,100 <t< td=""><td>2.300 <t< td=""><td>2.500 &lt;7</td></t<></td></t<></td></t<></td></t<>	2.800 <t< td=""><td>2,100 <t< td=""><td>2.300 <t< td=""><td>2.500 &lt;7</td></t<></td></t<></td></t<>	2,100 <t< td=""><td>2.300 <t< td=""><td>2.500 &lt;7</td></t<></td></t<>	2.300 <t< td=""><td>2.500 &lt;7</td></t<>	2.500 <7
MAR 2.800 <t 1.700="" 1.7000="" 1.<="" 4.000="" 4.900="" 5.200="" 6.700="" 7.500="" <t="" td=""><td></td><td></td><td></td><td>5.400 <t< td=""><td>3.500 <t< td=""><td>4.900 <t< td=""><td>5.400 <t< td=""></t<></td></t<></td></t<></td></t<></td></t>				5.400 <t< td=""><td>3.500 <t< td=""><td>4.900 <t< td=""><td>5.400 <t< td=""></t<></td></t<></td></t<></td></t<>	3.500 <t< td=""><td>4.900 <t< td=""><td>5.400 <t< td=""></t<></td></t<></td></t<>	4.900 <t< td=""><td>5.400 <t< td=""></t<></td></t<>	5.400 <t< td=""></t<>
APR					4.900 <t< td=""><td>6.700 <t< td=""><td>5.200 <t< td=""></t<></td></t<></td></t<>	6.700 <t< td=""><td>5.200 <t< td=""></t<></td></t<>	5.200 <t< td=""></t<>
MAY 5,900 <t 2.400="" 3.100="" 4.600="" 7.400<="" <t="" td=""><td></td><td></td><td></td><td></td><td></td><td>3,600 <t< td=""><td>1.700 &lt;7</td></t<></td></t>						3,600 <t< td=""><td>1.700 &lt;7</td></t<>	1.700 <7
JUN			2.100 1	3.100 4	4.000		
JUL   BDL   3,000 < T   3,700 < T   2,400 < T   5,900   5,800     AUG   BDL   4,000 < T   4,000 < T   5,200   4,100 < T   3,900 < T     SEP   BDL   1,700 < T   2,600 < T   1,700 < T   1,400 < T   2,500 < T     DCT   BDL   BDL   BDL   BDL   BDL   BDL   BDL     DEC   BDL   BDL   BDL   BDL   BDL   BDL   BDL     DEC   BDL   BDL   BDL   BDL   BDL   BDL   BDL     DEC   BDL   BDL   BDL   BDL   1,500 < T   BDL     DET   BDL   BDL   BDL   1,400 < T     DET   BDL   BDL   BDL   1,400 < T     JAN   170,000   170,000   170,000   170,000   180,000   180,000     FEB   190,000   190,000   190,000   190,000   190,000   180,000   180,000     MAR   180,000   210,000   200,000   200,000   210,000   200,000     JUN   180,000   180,000   170,000   170,000   170,000   170,000     JUN   180,000   180,000   180,000   180,000   180,000   180,000     JUN   180,000   180,000   180,000   180,000   190,000   190,000     AUG   170,000   180,000   180,000   180,000   190,000   190,000     AUG   170,000   180,000   180,000   180,000   190,000   190,000     SEP   180,000   180,000   180,000   180,000   190,000   190,000     DEC   180,000   180,000   190,000   180,000   180,000   190,000     DEC   180,000   180,000   190,000   180,000   180,000   180,000     DET   NIMIT = .050   GUIDELINE = N/A    JAN   4,900   5,300   6,000   6,100   7,200   6,700     FEB   3,200   2,600   2,800   2,600   2,800   2,800     APR   2,400   2,400   2,000 < T   1,900 < T     JAN   4,900   5,300   6,000   7,600   7,800   8,000   8,300     APR   2,400   2,400   2,400   2,000 < T   1,900 < T     JAN   4,900   5,300   6,000   4,900   4,800   6,000   7,000     JUL   4,000   4,000   3,500   4,900   5,500   4,900     SEP   3,800   4,900   3,800   3,500   4,600   5,600     OCT   3,700   3,700   3,300   3,900   3,900   4,700			2 400 «T	3 100 <t< td=""><td>4.600 <t< td=""><td></td><td></td></t<></td></t<>	4.600 <t< td=""><td></td><td></td></t<>		
AUG BOL 4.000 <t 1.400="" 1.4000="" 1.400<="" 1.500="" 2.500="" 3.900="" 4.000="" 4.100="" 5.200="" 6.200="" 7.200="" 80l="" <t="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t>							
SEP   BDL							
DCT	-						
MOV   BDL   1.200 < T   1.300 < T   BDL   1.500 < T   BDL   1.400 < T   1.4000 <							
DEC   BOL   BOL   BOL   1.100 <t 1.400="" <t="" bol="" td=""  =""  <=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t>							
STRONTIUM (UG/L )   DET'N LIMIT = .050 GUIDELIME = N/A							
JAN 170,000 170,000 170,000 170,000 180,000 180,000 180,000  FEB 190,000 190,000 190,000 190,000 180,000 180,000  MAR 180,000 210,000 200,000 200,000 210,000 200,000  APR 170,000 180,000 170,000 170,000 170,000 170,000  MAY 180,000 180,000 190,000 180,000 190,000 190,000  JUN 180,000 180,000 180,000 180,000 180,000 190,000 190,000  JUL 180,000 180,000 180,000 180,000 180,000 190,000 190,000  SEP 180,000 180,000 180,000 180,000 180,000 190,000 180,000  OCT 190,000 180,000 190,000 190,000 190,000 190,000  MOV 180,000 180,000 170,000 180,000 180,000 180,000 180,000  DEC 180,000 190,000 190,000 180,000 180,000 180,000  TITANIUM (UG/L )  DET¹N LIMIT = .050 GJIDELINE = N/A   JAN 4,900 5,300 6,000 6,100 7,200 6,700  FEB 3,200 2,600 2,800 2,600 2,800 8,300  APR 2,400 2,400 2,400 2,000 ₹ 2,100 2,000 ₹ 1,900 ₹ 1		•••••					
FEB 190.000 190.000 190.000 190.000 180.000 180.000 200.000 170.000 170.000 170.000 170.000 170.000 180.000 180.000 180.000 180.000 180.000 180.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 180.000 180.000 180.000 180.000 180.000 180.000 180.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 180.000 1	STRONTIUM	(UG/L )			DET'N LIMIT = .0	50 GUIDELINE =	N/A
MAR 180.000 210.000 200.000 200.000 210.000 200.000  APR 170.000 180.000 170.000 170.000 170.000 170.000  MAY 180.000							
APR 170.000 180.000 170.000 170.000 170.000 170.000 170.000  MAY 180.000							
MAY 180,000				_			
JUN 180,000 180,000 190,000 180,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 180,000 1			180.000	170.000	170.000		
JUL 180,000 180,000 180,000 190,000 190,000 190,000 190,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 180,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 180,000 1			•	•	•		
AUG 170,000 180,000 180,000 180,000 180,000 180,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 190,000 18							
SEP         180,000         180,000         190,000         180,000         190,000         190,000         190,000         190,000         190,000         190,000         190,000         190,000         190,000         190,000         190,000         180,000         1							
OCT 190.000 190.000 190.000 190.000 190.000 190.000 190.000 190.000 18							
MOV 180,000 180,000 170,000 180,000 180,000 180,000 180,000 180,000 190,000 190,000 180,000 1							
DEC 180.000 190.000 190.000 180.000 180.000 180.000  TITANIUM (UG/L ) DET*N LIMIT = .050 GUIDELINE = N/A  JAN 4.900 5.300 6.000 6.100 7.200 6.700  FEB 3.200 2.600 2.800 2.600 2.800 2.800 2.600  MAR 7.200 7.900 7.500 7.800 8.000 8.300  APR 2.400 2.400 2.000 <t 1.900="" 2.000="" 2.100="" 3.900<="" <t="" may="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t>							
TITANIUM (UG/L ) DET*N LIMIT = .050 GUIDELINE = N/A  JAN 4.900 5.300 6.000 6.100 7.200 6.700  FEB 3.200 2.600 2.800 2.600 2.800 2.800  ARR 7.200 7.900 7.600 7.800 8.000 8.300  APR 2.400 2.400 2.000 <t 1.900="" 2.000="" 2.100="" 3.900<="" <t="" may="" td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t>							
JAN 4.900 5.300 6.000 6.100 7.200 6.700  FEB 3.200 2.600 2.800 2.600 2.800 2.800  MAR 7.200 7.900 7.600 7.800 8.000 8.300  APR 2.400 2.400 2.000 ₹ 2.100 2.000 ₹ 1.90	DEC	180.000	190.000	190.000	180.000	180.000	180.000
FEB         3,200         2,600         2,800         2,600         2,800         2,800           MAR         7,200         7,900         7,600         7,800         8,000         8,300           APR         2,400         2,400         2,000 < T	TITANIUM	(UG/L )			DET'N LIMIT = .0	50 GUIDELINE =	N/A
MAR 7.200 7.900 7.600 7.800 8.000 8.300  APR 2.400 2.400 2.000 <t 1.900="" 2.000="" 2.100="" 3.900<="" <t="" may="" td=""><td>JAN</td><td>4.900</td><td>5.300</td><td>6.000</td><td>6.100</td><td>7.200</td><td>6.700</td></t>	JAN	4.900	5.300	6.000	6.100	7.200	6.700
APR 2,400 2,400 2,000 <t 1,900="" 2,000="" 2,100="" 2,900="" 3,100="" 3,300="" 3,500="" 3,700="" 3,800="" 3,900="" 4,000="" 4,200="" 4,500="" 4,600="" 4,700<="" 4,800="" 4,900="" 5,100="" 5,400="" 5,500="" 5,700="" 5,900="" 6,000="" 6,500="" 6,600="" 7,000="" <t="" aug="" jul="" jun="" oct="" sep="" td=""><td>FEB</td><td>3.200</td><td>2.600</td><td>2.800</td><td>2.600</td><td>2.800</td><td>2.800</td></t>	FEB	3.200	2.600	2.800	2.600	2.800	2.800
MAY 3,900	MAR	7.200	7.900	7.600	7.800	8.000	8.300
JUN 6.500 6.600 4.900 4.800 6.000 7.000  JUL 4.000 4.000 3.100 2.900 3.800 4.200  AUG 5.100 5.900 4.500 4.900 5.500 4.900  SEP 3.800 4.900 3.800 3.500 4.600 5.400  OCT 3.700 3.700 3.300 3.300 3.900 3.900  NOV 3.700 4.000 3.900 3.900 3.900 4.700	APR	2,400	2.400	2.000 <t< td=""><td>2.100</td><td>2.000 &lt;1</td><td>1.900 <t< td=""></t<></td></t<>	2.100	2.000 <1	1.900 <t< td=""></t<>
JUL     4,000     4,000     3,100     2,900     3,800     4,200       AUG     5,100     5,900     4,500     4,900     5,500     4,900       SEP     3,800     4,900     3,800     3,500     4,600     5,400       OCT     3,700     3,700     3,300     3,300     4,000     3,900       NOV     3,700     4,000     3,900     3,900     3,900     4,700	MAY	3,900				3.100	5.700
JUL     4,000     4,000     3,100     2,900     3,800     4,200       AUG     5,100     5,900     4,500     4,900     5,500     4,900       SEP     3,800     4,900     3,800     3,500     4,600     5,400       OCT     3,700     3,700     3,300     3,300     4,000     3,900       NOV     3,700     4,000     3,900     3,900     3,900     4,700			6.600	4.900	4.800	6.000	7.000
AUG     5.100     5.900     4.500     4.900     5.500     4.900       SEP     3.800     4.900     3.800     3.500     4.600     5.400       OCT     3.700     3.700     3.300     3.300     4.000     3.900       NOV     3.700     4.000     3.900     3.900     3.900     4.700							4.200
SEP     3.800     4.900     3.800     3.500     4.600     5.400       OCT     3.700     3.700     3.300     3.300     4.000     3.900       NOV     3.700     4.000     3.900     3.900     3.900     4.700							
OCT 3.700 3.700 3.300 3.300 4.000 3.900 NOV 3.700 4.000 3.900 3.900 3.900 4.700							
MOV 3.700 4.000 3.900 3.900 3.900 4.700	_						
APA							
			3,500 1		3.100 1	3.100	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MAMILTON WSS 1989

	RAW		TREATED	SITE 1		SITE 2	
				STANDING	FREE FLOW	STANDING	FREE FLOW
							- 2
MAL	BOL		BOL	BOL	BOL	BOL	BOL
FEB	.020		.020 <		BOL	<b>BO</b> L	BOL
MAR	.070		BOL	.020 <7		.040 <t< td=""><td>BOL</td></t<>	BOL
APR	.020	<t< td=""><td>BOL</td><td>BOL</td><td><b>BD</b>L</td><td>BOL</td><td>BOL</td></t<>	BOL	BOL	<b>BD</b> L	BOL	BOL
HAY	BOL			•	•	BOL	.070 <t< td=""></t<>
JUN	BOL		BOL	BOL	BOL	.020 <t< td=""><td>.020 &lt;7</td></t<>	.020 <7
JUL	.020	<1	BOL	.060 <7		BOL	BOL
AUG	BOL		BOL	BOL	BOL	BOL	BOL
SEP	.030	<7	.030 <			BOL	.040 <t< td=""></t<>
OCT	BOL		BOL	BOL	BOL	BOL	BOL
NOV	BOL		BOL	BOL	BOL	BOL	BOL
DEC	BOL		BOL	BOL	BOL	BOL	<b>80</b> L
JRANIUM (UG/	L )				DET'N LIMIT = .020	GUIDELINE =	100.(B1)
JAN	.350		.330	.350	.340	.320	.360
FEB	.470		.460	.490	.510	.510	.480
MAR	.480		.690	.550	.730	.510	.570
APR	.490		.540	.520	.510	.480	.530
HAY	.500				•	.470	.620
JUN	.540		.580	.580	.620	.590	.540
JUL	.610		.520	.520	.570	.710	.570
AUG	.430		.450	.460	.440	.390	.470
SEP	.270		.260	.300	.300	.340	.330
DCT	.390		.300	.300	.300	.330	.280
NOV	.330		.380	.320	.300	.350	.330
DEC	.280	<t< td=""><td>.360 &lt;</td><td>.310 <t< td=""><td>.390 <t< td=""><td>.340 <t< td=""><td>.320 &lt;1</td></t<></td></t<></td></t<></td></t<>	.360 <	.310 <t< td=""><td>.390 <t< td=""><td>.340 <t< td=""><td>.320 &lt;1</td></t<></td></t<></td></t<>	.390 <t< td=""><td>.340 <t< td=""><td>.320 &lt;1</td></t<></td></t<>	.340 <t< td=""><td>.320 &lt;1</td></t<>	.320 <1
ANADIUM (UG,	/L )	•		••••••••	DET'N LIMIT = .050	GUIDELINE =	N/A
JAN	.210	<₹	.320 <	r .270 <⊤	.240 <t< td=""><td>.300 &lt;1</td><td>.220 &lt;</td></t<>	.300 <1	.220 <
FEB	1.700		.370 <	r .310 <t< td=""><td>.350 <t< td=""><td>.390 &lt;7</td><td>.360 &lt;1</td></t<></td></t<>	.350 <t< td=""><td>.390 &lt;7</td><td>.360 &lt;1</td></t<>	.390 <7	.360 <1
HAR	.600		.580	.150 <t< td=""><td>.130 <t< td=""><td>.260 <t< td=""><td>.170 &lt;</td></t<></td></t<></td></t<>	.130 <t< td=""><td>.260 <t< td=""><td>.170 &lt;</td></t<></td></t<>	.260 <t< td=""><td>.170 &lt;</td></t<>	.170 <
APR	.270	<1	.440 <	7> .360 <t< td=""><td>.320 &lt;1</td><td>.410 <t< td=""><td>.320 &lt;</td></t<></td></t<>	.320 <1	.410 <t< td=""><td>.320 &lt;</td></t<>	.320 <
MAY	.210	<t< td=""><td></td><td></td><td></td><td>.320 <t< td=""><td>.420 &lt;</td></t<></td></t<>				.320 <t< td=""><td>.420 &lt;</td></t<>	.420 <
JUN	.940		1,200	1,200	1,200	1.200	1.200
JUL	.280	<7	.530	.470 <t< td=""><td>.390 <t< td=""><td>.460 <t< td=""><td>.430 &lt;</td></t<></td></t<></td></t<>	.390 <t< td=""><td>.460 <t< td=""><td>.430 &lt;</td></t<></td></t<>	.460 <t< td=""><td>.430 &lt;</td></t<>	.430 <
AUG	.240		.490 <			.440 <t< td=""><td></td></t<>	
SEP	.250		.420 <			.550	.470 <
OCT	.370		.520	.390 <t< td=""><td></td><td>.490 <t< td=""><td></td></t<></td></t<>		.490 <t< td=""><td></td></t<>	
NOV	.260		.440 <			.530	.390 <
DEC	.330		.300 <			.280 <t< td=""><td></td></t<>	
				.190 \1	.170 \1		
INC (UG/L	)				DET'N LIMIT = .001	GUIDELINE =	5000. (A3)
JAN	1.800		1.100	1.800	1.200	17.000	1.700
FEB	3.200		1.500	2.800	1.800	7.800	7.800
MAR	3.400		2.400	3.500	2.800	18.000	2.900
APR	2.700		2.200	2.900	1.700	12.000	1.900
MAY	4.400					16.000	3,600

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM MAMILTON WSS 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STAMDING	FREE FLOW
JUN	2.800	2.700	9.000	2.800	13.000	3.500
JUL	1.700	1.300	3.900	2.300	6.600	2.400
AUG	2.600	2.000	4.600	2.000	10.000	1.900
SEP	1.500	.880 <t< td=""><td>3.600</td><td>2.100</td><td>12.000</td><td>2.200</td></t<>	3.600	2.100	12.000	2.200
OCT	3.300	2.300	4.600	3.100	11.000	5.000
NOV	1.300	.770 <t< td=""><td>4.000</td><td>1.400</td><td>7.200</td><td>2.600</td></t<>	4.000	1.400	7.200	2.600
DEC	7.200	1.500 <t< td=""><td>2.100</td><td>1.600 <t< td=""><td>6.100</td><td>2.400</td></t<></td></t<>	2.100	1.600 <t< td=""><td>6.100</td><td>2.400</td></t<>	6.100	2.400

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PESTICI	DES & PCB				
ALPHA BHC (NO	G/L )		DET'N L	IMIT = 1.000	GUIDELINE :	700 (G)
JAN	2.000 <t< td=""><td>2.000 &lt;7</td><td></td><td>2.000</td><td>∢ .</td><td>2.000 &lt;7</td></t<>	2.000 <7		2.000	∢ .	2.000 <7
FEB	BOL	BDL		BDL		BOL
MAR	2.000 <t< td=""><td>BOL</td><td></td><td>2.000</td><td>ব .</td><td>2.000 <t< td=""></t<></td></t<>	BOL		2.000	ব .	2.000 <t< td=""></t<>
APR	1.000 <t< td=""><td>2.000 <t< td=""><td>•</td><td>1.000</td><td>ব .</td><td>2.000 <t< td=""></t<></td></t<></td></t<>	2.000 <t< td=""><td>•</td><td>1.000</td><td>ব .</td><td>2.000 <t< td=""></t<></td></t<>	•	1.000	ব .	2.000 <t< td=""></t<>
MAY	1.000 <t< td=""><td></td><td></td><td></td><td></td><td>1.000 <t< td=""></t<></td></t<>					1.000 <t< td=""></t<>
JUN	BDL	1.000 <t< td=""><td>•</td><td>1.000</td><td>&lt;1 .</td><td>1.000 <t< td=""></t<></td></t<>	•	1.000	<1 .	1.000 <t< td=""></t<>
JUL	2.000 <t< td=""><td>2.000 <t< td=""><td></td><td>BOL</td><td>•</td><td>BOL</td></t<></td></t<>	2.000 <t< td=""><td></td><td>BOL</td><td>•</td><td>BOL</td></t<>		BOL	•	BOL
AUG	1.000 <t< td=""><td>1.000 <t< td=""><td></td><td>2.000</td><td>&lt;1 .</td><td>2.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td></td><td>2.000</td><td>&lt;1 .</td><td>2.000 <t< td=""></t<></td></t<>		2.000	<1 .	2.000 <t< td=""></t<>
SEP	BOL	BDL	•	BDL		BOL
OCT	1.000 <t< td=""><td>1.000 <t< td=""><td></td><td>1.000</td><td>&lt;₹ .</td><td>2.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td></td><td>1.000</td><td>&lt;₹ .</td><td>2.000 <t< td=""></t<></td></t<>		1.000	<₹ .	2.000 <t< td=""></t<>
NOV	2.000 <t< td=""><td>1.000 <t< td=""><td></td><td>1.000</td><td>&lt;1 .</td><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td></td><td>1.000</td><td>&lt;1 .</td><td>1.000 <t< td=""></t<></td></t<>		1.000	<1 .	1.000 <t< td=""></t<>
DEC	BOL	BDL		BDL	•	BOL
BETA BHC (NG/	'L )		DET'N L	IMIT = 1.000	GUIDELINE =	: 300 (G)
JAN	BOL	BOL		BDL	•	BDL
FEB	BOL	BDL	•	BOL		BOL
MAR	BDL	BDL	•	1.000	∢ .	BOL
APR	BDL	BOL	•	BOL		BOL
MAY	BOL	•				BOL
JUN	BOL	8DL		BDL		BOL
JUL	BOL	BDL		BOL		BDL
AUG	BDL	BOL		BDL		BOL
SEP	BOL	BOL		BOL		BOL
OCT	BDL	BDL		BOL		BOL
NOV	BDL	BDL		BOL		BOL
DEC	8DL	BOL	•	BOL		BOL
.INDANE (NG/L	)		DET'N L	IMIT = 1.000	GUIDELINE =	4000 (A1)
JAN	BDL	BOL		BOL		BOL
FEB	BDL	BDL		BOL		BOL
MAR	BDL	BDL		BOL		1.000 <t< td=""></t<>
APR	BDL	BDL		BDL		BOL
MAY	BDL					BOL
JUN	BDL	BOL		8DL		BOL
JUL	BDL	BDL	•	BOL	•	BOL
AUG	BOL	BDL	•	BDL	•	BDL
SEP	8DL	BOL	•	BDL	•	BOL
OCT	BOL	BOL	•	BDL	•	BOL
NOV	BOL	BOL	•	BDL	•	BOL
DEC	BDL	BOL	•	BOL		BOL
TRAZINE (NG/	L )	••••••	DET'N LI	IMIT = 50.00	GUIDELINE =	: 60000 (B3)
JAN	BOL	BDL		BDL		901
FEB	BOL	BOL	•	SDL SDL	•	BDL BDL
MAR	BDL	BOL	•	_	•	
max.	BUL	BUL		BOL		BOL

DRINKING WATER SURVEILLANCE PROGRAM HAMILTON WSS 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	SITE 2			
			STANDING	FREE FLOW	STANDING	FREE FLOW	
APR	BOL	BDL		BOL		BOL	
MAY	BOL					BOL	
JUN	BOL	BOL		BOL		BOL	
JUL	BDL	BOL		BOL		BOL	
AUG	BDL	BOL					
SEP	BOL	BOL					
OCT	130.000 <t< td=""><td>140.000 <t< td=""><td></td><td></td><td></td><td></td></t<></td></t<>	140.000 <t< td=""><td></td><td></td><td></td><td></td></t<>					
NOV	BDL	8DL					
DEC	BOL	BOL					

TABLE 5

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PHE	NOLICS		·		• • • • • • • • • • • • • • • • • • • •
PHENOLICS	(UG/L )		DET'N LI	MIT = 0.2	GUIDELINE =	2.00 (A3)
JAN	.800	1.200	_	_		
FEB	.800 <1	T> 000.			•	•
MAR	2.000	1.000			•	•
APR	1.600	1,200		•	•	•
MAY	.600 <1		•	•	•	•
JUN	.600 <1	1.000				•
JUL	3.800	4.000		•	•	•
AUG	1.400	5.800	_		•	•
SEP	.600 <t< td=""><td></td><td></td><td>•</td><td>•</td><td>•</td></t<>			•	•	•
OCT	5.600	1.000			•	•
NOV	1.800	.600 <7		•	•	•
DEC	.400 <t< td=""><td></td><td></td><td>:</td><td>•</td><td>•</td></t<>			:	•	•

TABLE 5

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	VOLATIL	ES				
ENZENE (UG	/L )			DET'N LIMIT = .050	GUIDELINE =	5.0 (B1)
JAN	BOL	BOL		BOL		BOL
FEB	BOL	BOL		BOL		BOL
MAR	BOL	BOL		.050 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
APR	BOL	BOL		BOL	•	BOL
MAY	BOL				•	.050 <
JUN	BOL	BOL		BOL		BOL
JUL	BDL	BDL		.050 <t< td=""><td>•</td><td>IU</td></t<>	•	IU
AUG	.050 <t< td=""><td>10</td><td></td><td>.050 <t< td=""><td></td><td>BDL</td></t<></td></t<>	10		.050 <t< td=""><td></td><td>BDL</td></t<>		BDL
SEP	BOL	BOL		.050 <t< td=""><td></td><td>BOL</td></t<>		BOL
OCT	BOL	BOL		BOL	•	BOL
NOV	BOL	BOL		BOL	•	BOL
DEC	BOL	BOL	•	BOL	•	.050 <
OLUENE (UG	/L )	••••••		DET'N LIMIT = .050	GUIDELINE =	24.0 (B4)
JAN	BDL	BOL		BOL		BOL
FEB	BDL	.100 <t< td=""><td></td><td>BOL</td><td></td><td>BOL</td></t<>		BOL		BOL
MAR	BOL	BDL		.150 <t< td=""><td></td><td>BOL</td></t<>		BOL
APR	BOL	.100 <t< td=""><td></td><td>.100 <t< td=""><td></td><td>.050 &lt;</td></t<></td></t<>		.100 <t< td=""><td></td><td>.050 &lt;</td></t<>		.050 <
MAY	BOL			•		.050 <
JUN	BOL	BOL	•	.100 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
JUL	BOL	BOL		.100 <t< td=""><td></td><td>10</td></t<>		10
AUG	BOL	IU		.100 <t< td=""><td></td><td>.050 &lt;</td></t<>		.050 <
SEP	BOL	.050 <t< td=""><td></td><td>.250 <t< td=""><td></td><td>.100 &lt;</td></t<></td></t<>		.250 <t< td=""><td></td><td>.100 &lt;</td></t<>		.100 <
OCT	BOL	BOL		BOL		BOL
NOV	BOL	.050 <t< td=""><td></td><td>BOL</td><td></td><td>BOL</td></t<>		BOL		BOL
DEC	BOL	.050 <7	•	BOL	•	.150 <
HYLBENZEN	E (UG/L )		•••••	DET'N LIMIT = .050	GUIDELINE =	2.4 (84)
JAN	BOL	BOL		.050 <t< td=""><td></td><td>BOL</td></t<>		BOL
FEB	.050 <t< td=""><td>.050 <t< td=""><td>•</td><td>ROL</td><td>•</td><td>BOL</td></t<></td></t<>	.050 <t< td=""><td>•</td><td>ROL</td><td>•</td><td>BOL</td></t<>	•	ROL	•	BOL
MAR	.100 <t< td=""><td>BOL</td><td>•</td><td>.050 <t< td=""><td>•</td><td>BOL</td></t<></td></t<>	BOL	•	.050 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
APR	BOL	.050 <7	•	.050 <7	•	.050 <
MAY	BOL	.050 41	•	.030 <1	•	BOL
JUN	BOL	BDL	•	.050 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
JUL	BOL	BOL	•	BDL	•	IU
AUG	BOL	IU	•	RDL	•	BOL
SEP	BOL	BDL	•	BDL	•	BOL
	BOL	BOL	•	BOL	•	BOL
	BOL	BOL	•	BOL	•	BOL
OCT		.050 <t< td=""><td>•</td><td>BDL</td><td></td><td>.050 &lt;</td></t<>	•	BDL		.050 <
	BOL	.050 <1	•			
OCT NOV DEC	• • • • • • • • • • • • • • • • • • • •	.030 <1	•	DET'N LIMIT = .100	GUIDELINE =	300 (B4)
OCT NOV DEC	G/L )	•••••		DET'N LIMIT = .100	GUIDELINE =	
OCT NOV	• • • • • • • • • • • • • • • • • • • •	BDL BDL	······································	• • • • • • • • • • • • • • • • • • • •	GUIDELINE =	300 (B4) BOL BOL

TABLE 5

## WATER TREATMENT PLANT

	RAW TREATED SITE 1		SITE 2			
			STANDING	FREE FLOW	STAND ING	FREE FLOW
APR	BOL	.100 <t< td=""><td>•</td><td><b>BO</b>L</td><td>•</td><td><b>20</b>L</td></t<>	•	<b>BO</b> L	•	<b>20</b> L
MAY	BOL	•	•	•	•	BOL
JUN	BOL	BOL	•	BOL	•	BOL
JUL	BDL	BOL	•	BOL	•	וט
AUG	BOL	ľU	•	<b>BOL</b>	•	<b>30</b> L
SEP	BOL	BOL	•	BOL	•	BOL
OCT	BOL	BOL	•	<b>MO</b> L	•	BOL
NOV	BOL	BDL	•	BOL	•	BDL
DEC	BOL	.100 <7		BOL	•	BOL
O-XYLENE (UG/	L )			DET'N LIMIT = .050	GUIDELINE =	300 (84)
JAN	BOL	BOL		BOL		BOL
FEB	BOL	BOL		BOL		BOL
MAR	BOL	BOL		BOL	•	BOL
APR	BOL	.050 <t< td=""><td></td><td>.050 &lt;7</td><td>•</td><td>BOL</td></t<>		.050 <7	•	BOL
MAY	BDL	•		•		.050 <t< td=""></t<>
JUN	BOL	BOL	•	.050 <1		BOL
JUL	BDL	BOL		.050 <t< td=""><td></td><td>IU</td></t<>		IU
AUG	BOL	IU		BOL		BOL
SEP	BOL	8DL		.100 <t< td=""><td></td><td>BOL</td></t<>		BOL
OCT	BOL	BOL		BOL		BOL
NOV	BOL	BOL		BOL		BOL
DEC	BOL	.100 <7	•	BOL	•	.050 <t< td=""></t<>
STYRENE (UG/L	)			DET'N LIMIT = .05	GUIDELINE =	46.5 (D2)
JAN	BOL	.050 <t< td=""><td></td><td>.300 &lt;1</td><td></td><td>.050 <t< td=""></t<></td></t<>		.300 <1		.050 <t< td=""></t<>
FEB	.100 <t< td=""><td>.400 <t< td=""><td></td><td>.100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<></td></t<></td></t<>	.400 <t< td=""><td></td><td>.100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<></td></t<>		.100 <t< td=""><td></td><td>.100 <t< td=""></t<></td></t<>		.100 <t< td=""></t<>
MAR	.750 UCS	.300 <t< td=""><td></td><td>.300 &lt;7</td><td></td><td>.300 <t< td=""></t<></td></t<>		.300 <7		.300 <t< td=""></t<>
APR	.150 <t< td=""><td>.200 <t< td=""><td>_</td><td>.250 <t< td=""><td>-</td><td>.200 <t< td=""></t<></td></t<></td></t<></td></t<>	.200 <t< td=""><td>_</td><td>.250 <t< td=""><td>-</td><td>.200 <t< td=""></t<></td></t<></td></t<>	_	.250 <t< td=""><td>-</td><td>.200 <t< td=""></t<></td></t<>	-	.200 <t< td=""></t<>
MAY	BOL	•			•	.100 <t< td=""></t<>
JUN	.150 <t< td=""><td>.100 <t< td=""><td>•</td><td>.150 <t< td=""><td>•</td><td>.100 <t< td=""></t<></td></t<></td></t<></td></t<>	.100 <t< td=""><td>•</td><td>.150 <t< td=""><td>•</td><td>.100 <t< td=""></t<></td></t<></td></t<>	•	.150 <t< td=""><td>•</td><td>.100 <t< td=""></t<></td></t<>	•	.100 <t< td=""></t<>
JUL	.250 <t< td=""><td>,100 <t< td=""><td></td><td>.100 <t< td=""><td>•</td><td>IU</td></t<></td></t<></td></t<>	,100 <t< td=""><td></td><td>.100 <t< td=""><td>•</td><td>IU</td></t<></td></t<>		.100 <t< td=""><td>•</td><td>IU</td></t<>	•	IU
AUG	.050 <t< td=""><td>IU</td><td></td><td>.100 <t< td=""><td>•</td><td>.100 <t< td=""></t<></td></t<></td></t<>	IU		.100 <t< td=""><td>•</td><td>.100 <t< td=""></t<></td></t<>	•	.100 <t< td=""></t<>
SEP	.150 <t< td=""><td>.050 <t< td=""><td>•</td><td>BOL</td><td>•</td><td>.050 &lt;7</td></t<></td></t<>	.050 <t< td=""><td>•</td><td>BOL</td><td>•</td><td>.050 &lt;7</td></t<>	•	BOL	•	.050 <7
OCT	BOL	BOL	•	BOL	•	.050 <7
NOV	BDL.	.050 <t< td=""><td>•</td><td>BOL</td><td>•</td><td>BOL</td></t<>	•	BOL	•	BOL
DEC	BDL	BDL	•	.050 <7	:	BOL
CHLOROFORM (UG	i/L )			DET'N LIMIT = .100	GUIDELINE =	350 (A1+)
JAN	BDL	6.900		7.300		6.600
FEB	.200 <t< td=""><td>6.400</td><td>•</td><td>5,600</td><td>•</td><td>6.100</td></t<>	6.400	•	5,600	•	6.100
MAR	.200 <7	11.500	•	9.800	•	11.500
APR	BOL	10.000	•	10.800	•	
MAY	BOL	10.000	•	10.000	•	9.200
JUN	BOL	12.200	•	15.000	•	13.700
JUL	BOL	12.200	•		•	15.500
AUG	BOL		•	12.300	•	10
AUG	BUL	IU		14.800		18.200

TABLE 5

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAU	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BOL	15.500		14.800	•	17.800
OCT	BOL	13.400		11.000		8.700
NOV	BOL	6.800		6.700		7.900
DEC	BOL	9.200	•	9.200	•	9.400
111, TRICHLORO	ETHANE (UG/L	)		DET'N LIMIT = .02	0 GUIDELINE =	200 (01)
JAN	BOL	BOL		BOL		BOL
FEB	.100 <t< td=""><td>.360</td><td></td><td>BOL</td><td></td><td>SOL</td></t<>	.360		BOL		SOL
MAR	BDL	BOL		BOL		BOL
APR	BOL	.020 <t< td=""><td></td><td>BOL</td><td></td><td>BOL</td></t<>		BOL		BOL
MAY	.020 <t< td=""><td></td><td></td><td></td><td></td><td>BOL .</td></t<>					BOL .
JUN	BOL	BOL		.020 <t< td=""><td></td><td>SOL</td></t<>		SOL
JUL	BOL	BDL		BOL		10
AUG	.020 <t< td=""><td>10</td><td></td><td>BOL</td><td></td><td>BOL</td></t<>	10		BOL		BOL
SEP	BOL	BOL		.020 <t< td=""><td></td><td>SOL</td></t<>		SOL
OCT	BDL	BOL		BOL		BOL
NOV	BOL	BOL		BOL		BOL
DEC	BOL	BOL		BOL	•	.060 <
ICHLOROBROMON	ETHANE (UG/L	)		DET'N LIMIT = .05	0 GUIDELINE =	350 (A1+)
JAN	BOL	7.450		7.150		6.750
FEB	.150 <t< td=""><td>6.350</td><td>•</td><td>5.850</td><td>•</td><td>6,950</td></t<>	6.350	•	5.850	•	6,950
HAR	.100 <t< td=""><td>10.000</td><td>•</td><td>8.350</td><td></td><td>9.800</td></t<>	10.000	•	8.350		9.800
APR	BOL	7.800		7.600	•	7.100
MAY	BOL		•			9.300
JUN	BOL	8.450		9,400		10.000
JUL	BDL	9.250	•	8.650	•	IU
AUG	BOL	10	•	8.950	•	10.250
SEP	BOL	9.500	•	8.700	•	10.550
OCT	BOL	10.150	•	8,800	•	7.500
MOV	BDL	6.950	•	6.300	•	8,100
DEC	BOL	7.400	•	7.800	•	8.150
HLOROD I BROMON	ETHANE (UG/L	)		DET'N LIMIT = .10	00 GUIDELINE =	350 (A1+)
IAL	80L	4,400		4,100		3.900
FEB	BOL	3.400	•	3,400	•	3.800
MAR	BOL	4.800	•	4,500	•	4,600
APR	BOL	4.000	•	3.800	•	3.900
MAY	BOL	4.500	•	3.500	•	4.500
JUN	BOL	4.600	•	5.100	•	5.400
JUL	BOL	4.600	•	4.600	•	J.400
AUG	BOL	4.600 1U	•	4.400	•	5.100
SEP	BOL	5.000	•		•	5.700
OCT	BOL	5.000	•	4.900	•	4.000
			•	4.700	•	
WOV	BOL	4.400	•	4.100	•	4.600
DEC	BOL	4.600		4.200		3.100

TABLE 5

## WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
-CHLOROETH	YLENE (UG/L	)		DET'N LIMIT = .050	GUIDELINE =	10.0 (C2)
JAN	BOL	BOL		<b>90</b> L		BOL
FEB	BOL	BOL		BOL		BOL
MAR	BDL	BOL		BOL		BDL
APR	BOL	BOL		BOL		<b>S</b> DL
MAY	BOL					BOL
JUN	BOL	BOL		BOL		BOL
JUL	BOL	BOL		.050 <t< td=""><td></td><td>10</td></t<>		10
AUG	BOL	IU		BOL	•	.050
SEP	BOL	BOL		BOL	•	BOL
OCT	BOL	BOL		BOL		BOL
NOV	BOL	BOL		BOL		BOL
DEC	BOL	BOL		BDL	•	BOL
BROMOFORM (	UG/L )		••••••	DET'N LIMIT = .200	GUIDELINE =	350 (A1+)
JAN	BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.600</td></t<></td></t<>		.600 <t< td=""><td></td><td>.600</td></t<>		.600
FEB	BOL	.400 <t< td=""><td></td><td>.400 <t< td=""><td></td><td>.600</td></t<></td></t<>		.400 <t< td=""><td></td><td>.600</td></t<>		.600
MAR	BOL	.600 <7		.600 <t< td=""><td></td><td>.600</td></t<>		.600
APR	BOL	.400 <t< td=""><td></td><td>.400 <t< td=""><td></td><td>.400</td></t<></td></t<>		.400 <t< td=""><td></td><td>.400</td></t<>		.400
MAY	BOL			•		.600
JUN	BDL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.600</td></t<></td></t<>		.600 <t< td=""><td></td><td>.600</td></t<>		.600
JUL	BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>IU</td></t<></td></t<>		.600 <t< td=""><td></td><td>IU</td></t<>		IU
AUG	BOL	łU		.600 <t< td=""><td></td><td>.400</td></t<>		.400
SEP	BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.800</td></t<></td></t<>		.600 <t< td=""><td></td><td>.800</td></t<>		.800
OCT	BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.400</td></t<></td></t<>		.600 <t< td=""><td></td><td>.400</td></t<>		.400
NOV	BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.600</td></t<></td></t<>		.600 <t< td=""><td></td><td>.600</td></t<>		.600
DEC	BOL	.600 <t< td=""><td></td><td>.800 <t< td=""><td>•</td><td>.600</td></t<></td></t<>		.800 <t< td=""><td>•</td><td>.600</td></t<>	•	.600
,3 DICHLOR	OBENZENE (UG/L	)		DET'N LIMIT = .100	GUIDELINE =	130 (G)
MAL	BOL	BOL		80L		BOL
FEB	BOL	BOL		SOL		BOL
MAR	BOL	BOL		BOL		BOL
APR	BOL	BOL		BOL		BOL
MAY	BOL					BOL
JUN	BOL	BOL		8DL	•	BOL
JUL	BOL	BOL		BOL		IU
AUG	8őL	IU		BOL		BOL
SEP	BOL	BOL		BOL		BOL
OCT	BOL	BOL		BOL		BOL
HOV	BOL	BOL		BOL	•	BOL
DEC	BOL	BOL		BOL		.100
OTL TRIHAL	OMETHANES (UG/	. )		DET'N LIMIT = .500	GUIDELINE =	350 (A1)
JAN	BDL	19.350		19.150		17.850
FEB	BOL	16.550		15.250	•	17.450
1 6 0					•	
MAR	BOL	26.900	_	23.250	_	26,500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM NAMILTON WSS 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
						28.100
MAY	BOL		•		•	
JUN	BOL	25.850	•	30.100	•	31.500
JUL	BOL	27.250	•	26.150	•	10
AUG	SOL	ĮU		28.750	•	33.950
SEP	BOL	30.600		29.000		34.850
OCT	BOL	29.150		25.100		20.600
NOV	BOL	18.750		17.700		21.200
DEC	BOL	21.800		21.950		21.250

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

	ī	ETECTIO	N	
SCAN/PARAMETER	UNIT	LIMIT	GUIDE	LINE
			-	
BACTERIOLOGICAL				
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0	(A1)
STANDARD PLATE COUNT MEMBRANE	CT/HL	0	500/2	L(Al)
FILTRATION	·		•	
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100m	L(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A	
CHLOROAROMATICS				
HEXACHLOROBUTADIENE	NG/L	1.000	450.	(D4)
1,2,3-TRICHLOROBENZENE	NG/L		10000	(I)
1,2,3,4-TETRACHLOROBENZENE	NG/L	1.000	10000	(I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000	(I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000	(I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000	(D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000	(D4)
HEXACHLOROBENZENE	NG/L	1.0	10.	(C1)
HEXACHLOROETHANE	NG/L	1.000	1900.	(D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A	
PENTACHLOROBENZENE	NG/L	1.000	74000	(D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A	
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A	
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A	
CHLOROPHENOLS				
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A	
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A	
2,4,5-TRICHLOROPHENOL	NG/L		600000	(D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000.	(B4)
PENTACHLOROPHENOL	NG/L		30000.	(B4)
CHEMISTRY (FLD)	,			, ,
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A	
FIELD PH	DMSNLESS	N/A	6.5-8.	
FIELD TEMPERATURE	°C	N/A	<15 °C	
FIELD TURBIDITY	FTU	N/A	1.0	(A1)
CHEMISTRY (LAB)				
ALKALINITY	MG/L	.200		00(A4)
CALCIUM	MG/L	.100		(F2)
CYANIDE	MG/L	.001		20(A1)
CHLORIDE	MG/L	.200		(A3)
COLOUR	TCU	.5		(A3)
CONDUCTIVITY	UMHO/CM	1.	400.	(F2)
FLUORIDE	MG/L	.01		(A1)
HARDNESS	MG/L	.50		00(A4)
MAGNESIUM	MG/L	.05	30.	(F2)

	DE	TECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDEL	INE
NITRITE	MG/L	.001		(A1)
TOTAL NITRATES	MG/L	.02 .02	10. N/A	(AI)
NITROGEN TOTAL KJELDAHL	MG/L DMSNLESS		6.5-8.5	(34)
PH	MG/L	.000		(A4)
PHOSPHORUS FIL REACT	MG/L	.002		(F2)
PHOSPHORUS TOTAL	MG/L		500.	
SULPHATE TOTAL SOLIDS	MG/L	1.		
TOTAL SOLIDS TURBIDITY	FTU	.02		(A1)
TORBIBITI		•••		(/
METALS				
ALUMINUM	UG/L	.050	100.	(A4)
ANTIMONY	UG/L	.050		
ARSENIC	UG/L	.050		(A1)
BARIUM	UG/L		1000.	
BORON	UG/L		5000.	
BERYLLIUM	UG/L	.010		) (H)
CADMIUM	UG/L	.050		(A1)
COBALT	UG/L		1000.	
CHROMIUM	UG/L	.100		, ,
COPPER	UG/L		1000.	
IRON	UG/L	5.0		٠, ,
MERCURY	UG/L	.01		(A1)
MANGANESE	UG/L		50.	
MOLYBDENUM	UG/L		500.	(H)
NICKEL	UG/L		50.	(F3)
LEAD	UG/L		50.	(A1)
SELENIUM	UG/L	.200		(A1)
SILVER	UG/L	.020	50. 2000.	
STRONTIUM	UG/L	.010		(H) (D4)
THALLIUM	UG/L UG/L		N/A	(54)
TITANIUM	UG/L	.020		(A2)
URANIUM VANADIUM	UG/L	.020		(H)
ZINC	UG/L		5000.	(A3)
21.10				• •
PHENOLICS				
PHENOLICS (UNFILTERED REACTIVE)	UG/L	.2	2.0	(A3)
PESTICIDES & PCB				
ALDRIN	NG/L	1.0	700.	(A1)
AMETRINE	NG/L	50. 3	00000.	(D3)
ATRAZINE	NG/L	50.	60000.	(B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700.	(G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300.	(G)
GAMMA HEXACHLOROCYCLOHEXANE (LINDANE)	NG/L	1.0	4000.	(A1)
ALPHA CHLORDANE	NG/L	2.0	7000.	(A1)
GAMMA CHLORDANE	NG/L	2.0	7000.	(A1)
BLADEX	NG/L	100.	10000.	(B3)
DIELDRIN	NG/L	2.0	700.	(A1)
METHOXYCHLOR	NG/L		00000.	(B1)
ENDOSULFAN 1 (THIODAN I)	NG/L	2.0	74000.	(D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000.	(D4)
ENDRIN	NG/L	4.0	200.	(A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE	)NG/L	4.0	N/A	

	DET	ECTION	
SCAN/PARAMETER	UNIT	LIMIT	GUIDELINE

SCAN/PARAMETER	UNIT	LIMIT	GUIDELINE	
HEPTACHLOR EPOXIDE	NG/L	1.0	3000.	(A1)
HEPTACHLOR	NG/L	1.0	3000.	(A1)
METOLACHLOR	NG/L	500.	50000.	(B3)
MIREX	NG/L	5.0	N/A	
OXYCHLORDANE	NG/L	2.0	N/A	
O,P-DDT	NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	
PPDDE	NG/L	1.0	30000.	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)

## POLYAROMATIC HYDROCARBONS

PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO (A) ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E) PYRENE	NG/L	50.0	N/A	
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K)FLUORANTHENE	NG/L	1.0	N/A	
BENZO (A) PYRENE	NG/L	5.0	10.	(B1)
BENZO(G, H, I) PERYLENE	NG/L	20.0	N/A	
DIBENZO(A,H)ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D) PYRENE	NG/L	20.0	N/A	
BENZO (B) CHRYSENE	NG/L	2.0	N/A	
CORONENE	NG/L	10.0	N/A	

## SPECIFIC PESTICIDES

TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID	NG/L	50.	200000.	(B4)
(2,4,5-T)				
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	(A1)
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	(B1)
PICLORAM	NG/L	100.	190000.	(B3)
SILVEX (2,4,5-TP)	NG/L	50.	10000.	(A1)
DIAZINON	NG/L	20.	20000.	(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION	NG/L	20.	35000.	(G)
GUTHION (AZINPHOSMETHYL)	NG/L	N/A	20000.	(B1)
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.	7000.	(A1)
METHYLTRITHION	NG /T.	20	N/A	

	מ	DETECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDELINE	
PARATHION	NG/L	20.	50000.	(B1)
PHORATE (THIMET)	NG/L	20.	2000.	(B3)
RELDAN	NG/L	20.	N/A	
RONNEL	NG/L	20.	N/A	
AMINOCARB	NG/L	N/A	N/A	
BENONYL	NG/L	N/A	N/A	
BUX (METALKAMATE)	NG/L	2000.	N/A	
CARBOFURAN	NG/L	2000.	90000.	(B1)
CICP (CHLORPROPHAM)	NG/L	2000.	350000.	(G)
DIALLATE	NG/L	2000.	30000.	(H)
EPTAM	NG/L	2000.	N/A	
IPC	NG/L	2000.	N/A	
PROPOXUR (BAYGON)	NG/L	2000.	90000.	(G)
SEVIN (CARBARYL)	NG/L	200.	90000.	(B1)
SUTAN (BUTYLATE)	NG/L	2000.	245000.	(D3)
VOLATILES				
BENZENE	UG/L	.050		(B1)
TOLUENE	UG/L	.050		(B4)
ETHYLBENZENE	UG/L	.050		(B4)
PARA-XYLENE	UG/L	.100		, ,
META-XYLENE	UG/L	.10		• •
ORTHO-XYLENE	UG/L	.05		
1,1-DICHLOROETHYLENE	UG/L	.10		(D1)
ETHLYENE DIBROMIDE	UG/L	.05		5 G)
METHYLENE CHLORIDE	UG/L	.50		(B1) (D5)
TRANS-1, 2-DICHLOROETHYLENE	UG/L	.10		(55)
1,1-DICHLOROETHANE	UG/L	.10		(A1+)
CHLOROFORM	UG/L	.02	-	, ,
1,1,1-TRICHLOROETHANE	UG/L UG/L	.02		(D1)
1,2-DICHLOROETHANE	UG/L	.20		(B1)
CARBON TETRACHLORIDE	UG/L	.05		(D5)
1,2-DICHLOROPROPANE TRICHLOROETHYLENE	UG/L	.10		(B1)
DICHLOROBROMOMETHANE	UG/L	.05		(A1+)
1,1,2-TRICHLOROETHANE	UG/L	.05		0 (D4)
CHLORODIBROMOMETHANE	UG/L	.10		
TETRACHLOROETHYLENE	UG/L	.05		(C2)
BROMOFORM	UG/L	.20		
1,1,2,2-TETRACHLOROETHANE	UG/L	.05		17(D4)
CHLOROBENZENE	UG/L	.10	-	(D5)
1,4-DICHLOROBENZENE	UG/L	.10		(B4)
1,3-DICHLOROBENZENE	UG/L	.10		(G)
1,2-DICHLOROBENZENE	UG/L	.05	0 3.0	(B4)
-,	77.75		O N/A	

UG/L

UG/L

UG/L

TRIFLUOROCHLOROTOLUENE

TOTAL TRIHALOMETHANES

STYRENE

.100

.05

N/A

.500 350. (A1)

140. (D5)

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